



**Claudia L. Workman Fish & Wildlife
Education Center
Division of Natural Resources**



PARADIGM ARCHITECTURE

06/02/16 09:34:02
\\MU Purchasing Division

**Sealed Bid
Buyer: Guy Nisbet
Solicitation No.: CEOI 0310 DNR1600000018
Bid Opening Date: June 2, 2016
Bid Opening Time: 1:30 PM EST
Fax Number: 304.558.4115**

June 1, 2016

Mr. Guy L. Nisbet
Department of Administration
Purchasing Division
2019 Washington Street East
Charleston, WV 25305-0130

Re: A/E for Claudia L. Workman Fish and Wildlife Education Center – CEOI 0310 DNR 1600000018

Dear Mr. Nisbet:

Paradigm Architecture Inc. is pleased to submit this Expression of Interest for the Claudia L. Workman Fish and Wildlife Education Center for the West Virginia Division of Natural Resources. We believe that our team represents the best combination of experience and local representation to achieve a successful project which will reflect the importance of your facilities to the State of West Virginia!

Paradigm Architecture has partnered with Riggs Ward Design, an award-winning firm with experience planning and designing museums, visitor centers and other similar cultural institutions. We recently completed the West Virginia University Visitors' Center in Morgantown, West Virginia, with Riggs Ward. We are currently providing services for another Visitors' Center at the Coliseum at West Virginia University.

At Paradigm, we believe that service and responsiveness are critical to project success and client satisfaction. Our office is well positioned to respond rapidly to the unpredictable requirements of project design development and construction conditions. We have many active projects and strong client relationships as demonstrated by our repeat business with the Waterfront Development, West Virginia University, Glenmark Holdings, Russell Medical Center, and Powers & Associates (Cellular Sales).

We will be using an established team of highly qualified consultants for this project: Riggs Ward Design - Exhibition Consultants, Terradon Corporation - Civil Engineering and Landscape Architecture, and Allegheny Design Services – Structural and Mechanical, Electrical, Plumbing, and Fire Protection Engineering.

It is our goal to provide a high level of design solutions that reflect the unique image and purpose of our clients. We welcome the opportunity to work with you on this project!

Best regards,



Paul A. Walker, AIA
President

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Paradigm Architecture Overview





Two Waterfront Place

Firm History

Paradigm Architecture was formed in October of 2000 by a group of likeminded individuals who believe that architecture provides the opportunity to practice the career that we love. We as individuals and as team members of a firm have a responsibility to exhibit that passion in the manner in which we live our lives.

We chose the name Paradigm because it means a model that serves as an example.

This represents our highest ideals...

that our architecture would serve as an example

that our client service would serve as an example

that our service to our God would serve as an example.

Originally established in Birmingham, Alabama, Paradigm Architecture expanded in 2002 by opening an office in Morgantown, West Virginia. Our staff of ten includes four registered architects, one intern architect, three CAD designers, and two administrative assistants. We utilize the most current technical hardware and software including Revit, Sketchup, AutoCAD, and Navisworks, as well as iMasterSpec specifications software.

It is our belief that we should assemble consultants that are uniquely skilled to satisfy the particular requirements of a project. We have close professional relationships with many engineers and specialized consultants and choose those that we feel will best serve the technical specialization, location of the work and sometimes even personality of the client. We choose not to work with firms who do not share our commitment to service and quality.



West Virginia University Mountaineer Station

*Excellence in Construction by the
Associated Builders & Contractors, Inc.*

2014 - WVU College Park
Morgantown, WV

2010 - Morgantown Event Center
Morgantown, WV

2010 - GSA USDA Office Building
Morgantown, WV

2010 - WVU Transportation Center and Garage
2007 - Waterfront Marina

Morgantown, WV

2007 - Chestnut Ridge Church
Morgantown, WV

2004 - Madden Student Center
Davis & Elkins College

Elkins, WV

2004 - Two Waterfront Place Hotel
& Conference Center

Morgantown, WV

2003 - The Jackson Kelly Building
Morgantown, WV

2001 - Russell Cancer Center
Alexander City, AL

Firm Profile

Paradigm by definition means an example that serves as pattern or model. The goal of Paradigm Architecture is to be an example in client service, design quality, and technical proficiency. We practice architecture. For every project, Paradigm works closely with the unique requirements of the particular client to design a structure that reflects both the appropriate image and proper function to optimize the working or living environment.

EXPERIENCE

Paradigm Architecture has experience in a broad range of project types. This work includes private individual, corporate, governmental, educational, and institutional clients.

Healthcare | Institutional

Medical and retirement life care projects dominate our staff's institutional portfolio. Medical projects include outpatient surgery centers, patient care rooms, emergency medicine, surgery suites, labor & delivery suites, Magnetic Resonance Imaging, X-ray diagnostic services, and heart catheterization spaces for hospital clients, radiation and chemotherapy treatment areas in cancer centers, and professional office space for private physicians. Retirement life care facilities range from independent elderly housing and assisted living facilities to full nursing care centers.

Educational

Higher Educational experience includes administrative office space, parking facilities, student housing, libraries, student centers, athletic facilities, classrooms, and research laboratory facilities. We have worked on campuses that include: West Virginia University, Fairmont State University, Davis and Elkins College, The College of West Virginia, Hampden Sydney College, Wake Forest University, Ayers State Technical College, The University of North Carolina at Greensboro, and The University of Alabama at Birmingham. Paradigm's staff has also been involved in educational facilities at the elementary and high school level including new and renovated buildings.



WVU Honors Dorm

Alabama Masonry Institute

2004 – Top Block Award

Russell Professional Office Building III

Alexander City, AL

Main Street Morgantown

2008 – Best New Construction Award

Marina Tower, Morgantown, WV

2008 – Best New Office Award

Spilman Thomas Battle, Morgantown, WV

Pittsburgh Coming Glass Block

2004 – Circle of Design Excellence Award

Lightning Strikes Family Fun Center

Trussville, AL

West Virginia American Institute of Architects

2010 – Honor Award

Upper Monongahela River Center

Morgantown, WV

2010 – Merit Award

West Virginia University

Transportation Center & Garage

Morgantown, WV

International Parking Institute Awards of Excellence

2011 – Honorable Mention

Mountaineer Station (WVU Transportation Center)

Morgantown, WV

Master Planning

Paradigm Architecture has successfully completed master planning for the Waterfront Development and Trinity Christian School in Morgantown, Avery Court in Parkersburg, and Glade Springs Resort in Daniels. In addition, we have performed master planning for Asian Plaza in Birmingham, AL, and have recently updated the master plan for Russell Medical Center in Alexander City, AL, as well as the West Virginia School of Osteopathic Medicine in Lewisburg, WV.

Corporate

Paradigm has designed entire office buildings as well as tenant fit-up spaces for clients such as Jackson Kelly PLLC, A.G. Edwards, Acordia, Petroplus & Associates Inc., National Biometric Security Project, Simpson & Osborne, DMJM Harris, and the West Virginia University Foundation. Projects also include banking regional and branch offices.

Governmental

Members of Paradigm have been involved in projects for the Federal Government in Charleston and Clarksburg, West Virginia. These commissions were awarded through design competitions and involved office space for Social Security, the Federal Bureau of Investigation, the Drug Enforcement Agency, the Small Business Administration, and hearing rooms for SSA Hearings and Appeals. Paradigm is also currently involved in several projects for the GSA in the Morgantown area.

Food Service

We have been privileged to design many food service facilities. These include private restaurants as well as large, full service commercial catering kitchens and banquet facilities. Examples include Two Waterfront Place Hotel and Conference Center, Morgantown Event Center, Regatta Bar and Grille, Boathouse Bistro, Sargasso Restaurant, Trussville Family Center, and Shono's Restaurant.

Hospitality/Multi-Family Housing

Our multi-family housing experience spans a variety of client types including student dormitories, hotel project, elderly housing, and private residential including single family homes, townhouses, and high end condominiums. West Virginia University Downtown Housing, the Condominiums at Two Waterfront Place in Morgantown, WV, as well as the Glade Springs Resort and Conference Center in Daniels, WV, are a few examples



Pillar Innovations

Philosophy

Paradigm Architecture believes that relationship is the heart of design. Success is dependent on the relationship between architect and client. We believe that in order to provide a good solution, the client and architect must collaborate from the initial phase of the design through its completion. Our goal is to provide a professional relationship that exemplifies integrity in order to provide our client with a final product that is creative, functional, and responsive to their needs.

Paradigm Architecture's approach to architectural design solutions:

Client/Program:

Architectural design originates with the client, their unique program requirements and their particular goals for the project. This purpose is the reason the project exists and it is the understanding of that intent that provides direction for the solution. Most projects are born from functional needs. Others are motivated by vision. On the most elementary level, projects must function properly. Ideally, buildings reflect in built form the goals and ideals of the client by the very image they project.

Site:

The site is one of the greatest influences on design. Property proportions, topography, vegetation, views, natural light, and access shape the solution. Even the surrounding architecture can influence the design solution. Often it is the limitations of the site that becomes the project's greatest assets.

Influence:

Training in proportion, order, historic precedent, materials, and pattern influence design solutions. It is the personal incorporation of these design elements that determines a firm's unique architectural character. Our work is most often defined by an emphasis on strong forms, attention to material detailing and response to context. Our solutions are unique to the project requirements rather than a rigid philosophy. We strive to provide designs that reflect our clients rather than ourselves.



Marina Tower and Upper Monongahela River Center

Customer Relationships Quality Assurance

Paradigm Architecture prides itself on providing excellent client service. When asked one time whether Paradigm Architecture was primarily a Design Firm or a Technical Firm, the response was simply "We are a Client Service Firm." Our portfolio of projects exemplifies this as the majority of our work comes from repeat clients. In addition to designing award winning projects, we are known for providing fast, local response, as well as personal attention to each and every project, no matter how large or small. The following pages are brief summaries of techniques used to maintain these valuable relationships.

Project Management

Every project will be assigned a Project Manager who is a licensed Architect with appropriate project type experience. This project manager will be assigned to the project from conception to project closeout and will be the client's primary point of contact for the entire design team. Communication is of utmost importance for any project to be successful and a workflow of communication, including identifying key individuals' responsibilities and authorities will be established at the onset of the project. Unlike most design teams, we feel that it is important for the Owner to have direct contact with the consultants on the design team. There will be scheduled meetings throughout the duration of the project where the Owner will have the opportunity to be directly involved with all aspects of the project's design. These meetings will range from design charrettes to interviews with maintenance staff to feedback meetings at the conclusion of design phases.



Morgantown Events Center

Paradigm's system of delivering projects involves direct, personal attention to every project, open communication between the Owner and Design Team, and innovative methods that push the boundaries of traditional architectural firms. Unlike most design teams, we feel that it is important for the Owner to have direct contact with the consultants on the design team. There will be scheduled meetings throughout the duration of the project where the Owner will have the opportunity to be directly involved with all aspects of the project's design. An organized flow of all communication and project management is of utmost priority. The design team has an established hierarchy in which each subconsultant will have a single Point of Contact with Paradigm Architecture's Project Manager. Paradigm Architecture will then in turn have a single Point of Contact with the Owner, who will then manage all of their internal flow of communication between the two parties. Paradigm Architecture has abundant experience in managing multiple projects with critical deadlines. Meeting these deadlines all starts with a clear definition of the schedule constraints. The ultimate project completion date is not the only date that should be targeted on the delivery schedule. Paradigm utilizes critical path method scheduling to define "Milestone" dates for the entire project. These include deliverables dates for various phases, design time, Owner's review, Agency and Authority having Jurisdiction Review, procurement time, and construction time. Rather than viewing the schedule as a linear process, it is of utmost importance to determine those items that fall on the "critical path." If those deadlines are missed, then the schedule must be adjusted immediately or the project will fall behind. We prefer to view the Schedule as a method of monitoring and control throughout the duration of the project. The entire design team and the Owner will be constantly informed and updated regarding schedule performance and corrective action will immediately be taken as necessary.



United States Department of Agriculture

Construction Contract Administration

In addition to the Project Manager, a Construction Contract Administrator will be assigned to each project. This individual will have extensive experience with the Client's established Design Guidelines and Standards and Construction Contract procedures. Unique to our firm, this person will have been actively involved with the project during design and will have firsthand knowledge of the project's design and construction documents. The Construction Administrator's roles will include managing and reviewing shop drawings, submittals, and RFIs for the entire design team. Additional roles include attendance at job site meetings, documenting construction progress and actively keeping the Owner informed through direct correspondence. The Contract Administrator will endeavor to have a good working relationship with the successful contractor bidding on the project to ensure that the project is a success for all parties involved.

All of our engineers and consultants perform construction administration including shop drawing review and site visits to observe mechanical/electrical systems compliance with drawings and specifications. We believe the involvement of the design engineer during this phase allows for verification that the designed systems are installed as specified, onsite, and we have a consistent track record of providing quick response times to immediate issues that arise. In addition, we take advantage of electronic shop drawing reviews, videoconferencing, and web-based collaboration to provide expedited response for those consultants who are not immediate to the project site. All of our clients know that we are "just a phone call away" and readily available to address any need that they may have.

Project Closeout & Post Project Review

Project Closeout Procedures will involve inspections by all members of the design team for Substantial Completion, and again at Final Completion. Each team member will generate a punch list of items that are either deficient or need to be completed. Closeout Submittals are required on every project and include not only Operations and Maintenance Manuals, but also Record Drawings, Approved Shop Drawings/Submittals, Attic Stock, and Contact Information for all Subcontractors on the project. A careful review and confirmation of the Closeout Submittals will be conducted prior to approval of the Final Payment Application.

Paradigm encourages Post Project Review on all projects and will conduct a "post mortem" meeting upon request by the Owner. Key team members of the project will be present at this meeting, including but not limited to the Owner, Architect, and Contractor. We feel that these meetings are important so that all parties involved have the opportunity to provide constructive input and learn from the completed project.



Chestnut Ridge Church | Morgantown

File Transfer Protocol (FTP)

Throughout the life of the project, Paradigm hosts the FTP site. Paradigm sets up the site and all permissions for the site. If necessary, we lead a training session for the entire project team on how to use the site. The site will be maintained from the signing of Owner/Architect Agreement until the Project Closeout. All formal correspondence, as well as all required deliverables, throughout the duration of the entire project shall be uploaded to the FTP site. Paradigm creates an archive CD or DVD of all files on the project's FTP site at Project Closeout and delivers to the Owner.

Document Review and Coordination

In addition to using BIM, Paradigm has a tested methodology of coordination reviews and "check set" submissions throughout various stages of the project. These typically fall at the conclusion of Schematic Design, Design Development, 50% Construction Documents, and 95% Construction Documents. The Project Manager will carefully review and coordinate the documents from all disciplines and issue markups back to the team for incorporation. These checks will include (but are not limited to) coordination of utility layouts above ceiling with the structural systems, all vertical risers, life safety and code reviews, building program backchecks, specifications, and incorporation of the Owner's Design Guidelines and Standards. The Owner will be given an identical "check set" at each submission for review and comment.

Facilities Operations and Maintenance

Recognizing the importance of long-term building operations and maintenance concerns, as well as building lifecycle costs, we encourage the involvement of the Owner's Facilities Management and/or Physical Plant staff throughout the project. We prefer to allow the engineers to get direct feedback from these individuals and we value their input to the selection of materials and systems. We diligently work to avoid past issues and concerns that have risen on past projects. In addition, our consultants have abundant experience in providing solutions and alternatives to pre existing maintenance conditions to alleviate those problems, provide a better building environment, and reduce lifecycle costs. This experience gives our team first-hand experience on the importance of having this staff involved with the design and allows for better decision making with the materials and systems selection.



Pillar Innovations

Procurement

Once Bidding Documents have been approved by the Owner, Paradigm Architecture will assist the Owner in the Procurement Phase by prequalifying contractors, holding a Pre-Bid Conference, responding to questions, and issuing Addenda. After bids have been received, Paradigm Architecture will review the lowest responsible bidder submission to verify that all requirements have been met. At that point a Construction Contract will be issued to the Contractor for signature. Upon receipt of a Notice to Proceed from the Owner, we will begin our Construction Contract Administration Services.

Part of the goal of the Planning Phase of any project is to identify the MEP/FP scope of work for the project. To this end, our team of mechanical and electrical engineers and designers address and determine how the final system selection is impacted by such major issues as advancing technology, changes in design standards, higher expectations of comfort levels, greater awareness of environmental concerns, the needs and availability of practical energy conservation measures, forecasting future needs, and maintaining construction and operating costs within budget constraints. For renovation projects, our evaluation approach involves the visual inspection of existing conditions by a team of engineers. An assessment report, including a description of the present systems, evaluation of existing conditions and defects, recommendations, and an estimate of budget/cost implications is provided to assist in the decision-making process. Using information gathered by site visits and during meetings, we then develop a list of applicable MEP system options that can be considered. These options are compared on a qualitative and quantitative basis using sophisticated energy analysis software.

As stated above, the programming process will primarily involve a series of in-depth interviews with various department heads, administration, and end users of the facility(ies). These interviews session will be documented, analyzed, and summarized by the design team. These summaries will be delivered to the Owner for review and verification. This Program not only defines Spatial Requirements (Scope), but also defines the Budget, Schedule, and Quality of Work for the entire project. Once finalized, this program is the Statement of Work that all future decisions surrounding the project are based on.



From Program to Design to Construction

Once a program has been established, Paradigm Architecture will lead the design team through Schematic Design, Design Development, and Construction Documents. Our experienced architects, engineers, and designers perform design calculations, review applicable codes and prepare construction drawings and specifications to allow the project to be competitively bid. Those drawings and specifications detail the construction requirements of the project, and describe the quality, configuration, size and relationship of all electrical and mechanical components to be incorporated into the project.

Schematic Design Deliverables will include Preliminary Architectural Floor Plans and Elevations, as well as Systems Narratives by all consultants. An initial building and life safety review will be completed.

Design Development Deliverables will include detailed floor plans, elevations, sections, schedules, and single line engineering drawings. An outline specification will also be part of these deliverables, as well as 3-dimensional renderings for better visualization. Preliminary color selections will be presented by the Interior Designer. Preliminary "in person" reviews with the State Fire Marshal will be conducted.

Construction Documents Deliverables will include fully developed and completed drawings and specifications from all disciplines. Final color selection boards will be presented by the Interior Designer during this phase. Another review will be conducted with the State Fire Marshal's office prior to bidding. The construction documents must be consistent with the project program, the construction budget, and the project schedule.

At all phases, an updated cost estimate will be provided by our construction manager that represents the current status of the project. As required for budget control, value engineering will take place prior to bidding and alternates will be included in the final bidding documents. In addition, our construction manager will be reviewing the project for constructability analysis and will assist in developing phasing sequences for the renovation of these existing facilities.

West Virginia University Mountaineer Station





West Virginia University Greenhouse

Quality Control & Project Management

Project Coordination

Paradigm Architecture prides itself on streamlining our project delivery and management methods. One of the ways we do this is to utilize the latest technology, including web-based project collaboration sites, electronic communication, electronic submittals for review and approval. Paradigm utilizes advanced techniques to accomplish this including internet-hosted project sites for collaboration, online meetings, video conferencing, and Building Information Modeling. Although many design firms may be learning to use this technology today, what separates Paradigm is that we have been utilizing advanced technology from day one of operation and have many local example projects where it was used. More recently, Paradigm has worked with contractors using Newforma and Procore project management software.

Project Delivery

We have successfully used a wide range of project delivery types on both public and private projects: design-bid-build, negotiated, design-build, develop-design-build, fast track, construction management agency, and construction management where the construction manager is also the contractor. We have extensive experience on fast-track construction projects, ranging from \$1 million to \$35 million. We assist the owner in developing critical path items and developing multiple early release packages while the design is still ongoing. These packages typically include initial site work, foundation, superstructure, long lead equipment, shell, and interior fit out. Although there are greater risks that must be assumed by the owner with this method, the benefits from meeting tight deadlines typically outweigh these risks. Expedient decisions must be made by all involved and open lines of communication and transparency are crucial. On any given type of project delivery, we have a quality control plan that includes developing an initial schedule with the owner for the entire project through the design, bid, and construction phases. Milestone points will be established and will include deliverables from both the design team and the owner. These milestone points will include sets of progress drawings and specifications for both the owner's and design team's review. We have an extensive "in house" coordination and review process that includes engineering coordination, specification coordination, code and life safety reviews, and the owner's program review. Before moving to each subsequent phase, the Owner will have an opportunity to review and "sign off" on each progress set so that all parties are always clear as to the direction the project is heading.



Morgantown Waterfront Development

Marine Tower



Critical Path Method

Paradigm Architecture has abundant experience in managing multiple projects with critical deadlines. Meeting these deadlines all starts with a clear definition of the schedule constraints. The ultimate project completion date is not the only date that should be targeted on the delivery schedule. Paradigm Architecture utilizes critical path method scheduling to define "Milestone" Dates for the entire project. These include deliverables dates for various phases, design time, Owner's review, Agency and Authority having Jurisdiction Review, procurement time, and construction time. Rather than viewing the schedule as a linear process, it is of utmost importance to determine those items that fall on the "critical path." If those deadlines are missed then the schedule must be adjusted immediately or the project will fall behind. We prefer to view the Schedule as a method of Monitoring and Control throughout the duration of the project. The entire design team and the Owner will be constantly informed and updated regarding schedule performance and corrective action will immediately be taken as necessary.

Fast Track

We have been involved with multiple project delivery types where time is of the essence and have the capability to perform Fast Track Delivery Services if necessary. With Fast Track Delivery, the project is broken up in multiple construction packages with early release dates. Examples of these packages include Earthwork / Site Utilities, Foundations, and Superstructure. This allows construction to begin before the design has been complete.



Pillar Innovations

Cost Control

Paradigm Architecture understands the importance of the project budget and takes great pride in being able to meet these budgets. Project budget is not just the construction budget. We assist the owner in reviewing all aspects of the total project budget, including pre-design services, such as surveys, field investigations and geotechnical explorations, furniture, fixtures, and equipment (FFE) packages, and project closeout. Due to our vast experience with multiple project delivery types, including design-build and construction management, we have firsthand experience with monitoring costs throughout the entire project. In our 15 years of operations, we have never had an Owner "reject all bids" due to cost overruns. Many times, to help control costs on the project, we will work with the Owner early on to establish a base bid package that will deliver within budget. We will then establish a series of alternate packages that can be selected from once bids are received. We will also work with the Owner to establish an Owner's contingency allowance for those unforeseen issues that may arise.

Using internal cost data, and national databases, we are able to provide the Owner rough order of magnitude and schematic cost estimating for initial project development. We often conduct feasibility studies for clients to help them with initial project evaluations. We feel that utilizing the services of a contractor or construction manager is extremely beneficial to the design process and helps keep the project moving in the right direction. Their services, such as cost estimating, constructability reviews, value engineering, current bid market analysis, and CPM scheduling have proven to be valuable assets to both the architect and owner. They are the experts in this area, just as we are the experts in the area of design, so why shouldn't we work together from day one to give the owner the best possible project? At times, we recommend both the architect and owner hire these consultants so that two third party reviews can be conducted and then any major differences be reconciled prior to bidding the project. Using these unique approaches we find that it is rare for one of our projects to be over budget or behind schedule.



Project Experience | References



RELEVANT WORK

West Virginia University Visitor Resource Center



The University's theme colors are seamlessly integrated into the space through the use of natural wood and other interior finishes.

The new West Virginia University (WVU) Visitor Resource Center is a high-tech immersive experience with an HD panoramic video display, multi-user touch tables, and a virtual tram ride. A new reception desk provides better interaction between visitors and staff. The exhibits explore student, alumni, academic and student life stories.

Of particular focus is WVU's significant contribution to forensic sciences and clean energy technologies. These two very prominent and highly respected areas of research by WVU are shown via experiential exhibits that evoke strong connections among the academia, corporate, and government leaders and the scientists who visit the center.

RELEVANT WORK



Above, Visitors use an interactive touchscreen to search for notable alumni by year, major, or region. Below, left to right: A structured ceiling system adds focus to the reception desk. Visitors use an interactive study desk to create and arrange a class schedule. The visitor can view student schedules, course descriptions, and requirements.



RELEVANT WORK

Virginia Tech New Visitor and Admissions Center



Lobby space with front help desk.

Riggs Ward Design, in collaboration with Glavé and Holmes Architecture, designed a new Virginia Tech Visitor and Undergraduate Admissions Center. Upon entering the Virginia Tech Center, visitors view pictures and names of current students, which helps prospective students envision their place within the university. Throughout the Virginia Tech Center, RWD highlights key elements of being a Hokie: cheering fans in Lane Stadium, the Hokie Bird, and the iconic Burruss Hall.

Additionally, RWD incorporated interactive touchscreens and videos in the design to motivate prospective students to learn about Virginia Tech's student life, academics, and research opportunities. Visitors can learn about Virginia Tech's history by viewing a timeline, which includes both video and images. Overall, RWD's Virginia Tech Center design encourages prospective students to imagine themselves as a part of the close-knit Hokie community.

RELEVANT WORK



Above: The title panel is complemented by large graphics and adjacent touch-screen interactives. Below: Visitors can explore alumni stories through an interactive map.



RELEVANT WORK

Bethlehem Visitor Center Bethlehem, Pennsylvania Steel Stacks



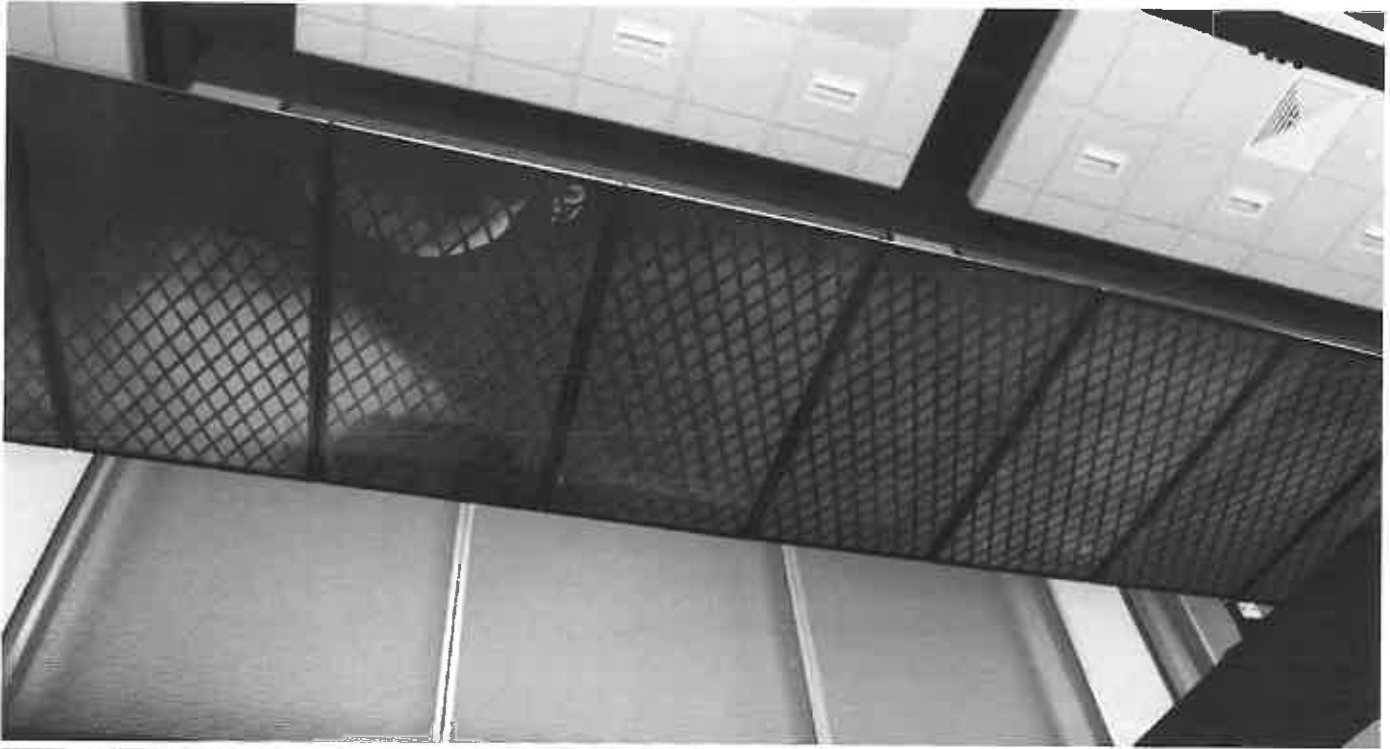
The main exhibit gallery allows visitors to use multiple touch screen interactives to explore sites related to steelworker heritage within the city.

RWD worked on a multi-phase project for a new Bethlehem Visitor Center. The Bethlehem Visitor Center, housed in the 1863 stock house, is the oldest building at the Steel Stacks campus. Located adjacent to the iconic blast furnaces, the exhibit space is designed to give tourists and visitors a portal to not only the city of Bethlehem, but also the larger Lehigh Valley.

Designed to promote the many messages and destinations of local organizations and events, the center features a combination of interactive kiosks, as well as more traditional static displays. All of the exhibits celebrate the wide range of historical venues alongside the many festivals, such as Musikfest and Christkindlmarkt that are held annually in the region.

Additionally, visitors are transported to a day in the life of a steelworker through a highly immersive steelworkers' catwalk experience. When standing beneath the catwalk, visitors can view the steel extrusion process, hear a factory supervisor direct workers, and see the large-scale machinery and steel production techniques come to life.

RELEVANT WORK



Above: Overhead, an immersive steelworkers' catwalk uses multiple touchscreens, booming audio, and a looping animation to give visitors an idea of the steel production scale and to bring the factory atmosphere to life. Below, left to right: A view of the catwalk display system. Visitors use an interactive touchscreen to explore "Arts and Entertainment" sites throughout the city.



RELEVANT WORK

State of Virginia Department of Conservation Shenandoah River State Park Raymond "Andy" Guest Visitor Center



A graphic panel reads visitors into the main exhibition space, which features mounted animals and specimen-rich displays.

Riggs Ward recently collaborated with the Virginia Department of Conservation and Recreation to plan, design, and install exhibits for Shenandoah River State Park's newly constructed Raymond "Andy" Guest Visitor Center. The space features exhibit areas, class/conference rooms, a photo gallery, and lobby displays. The exhibits celebrate the park's history, natural beauty, and recreational value, focusing on the centrality of the Shenandoah River to those themes.

Riggs Ward's design includes indoor and outdoor water features that highlight the Shenandoah River's ecosystems, an area for housing both temporary and permanent exhibits, interactive displays that allow visitors to follow the area's historic timeline, as well as three-dimensional artifacts, including a number of mounted animals.

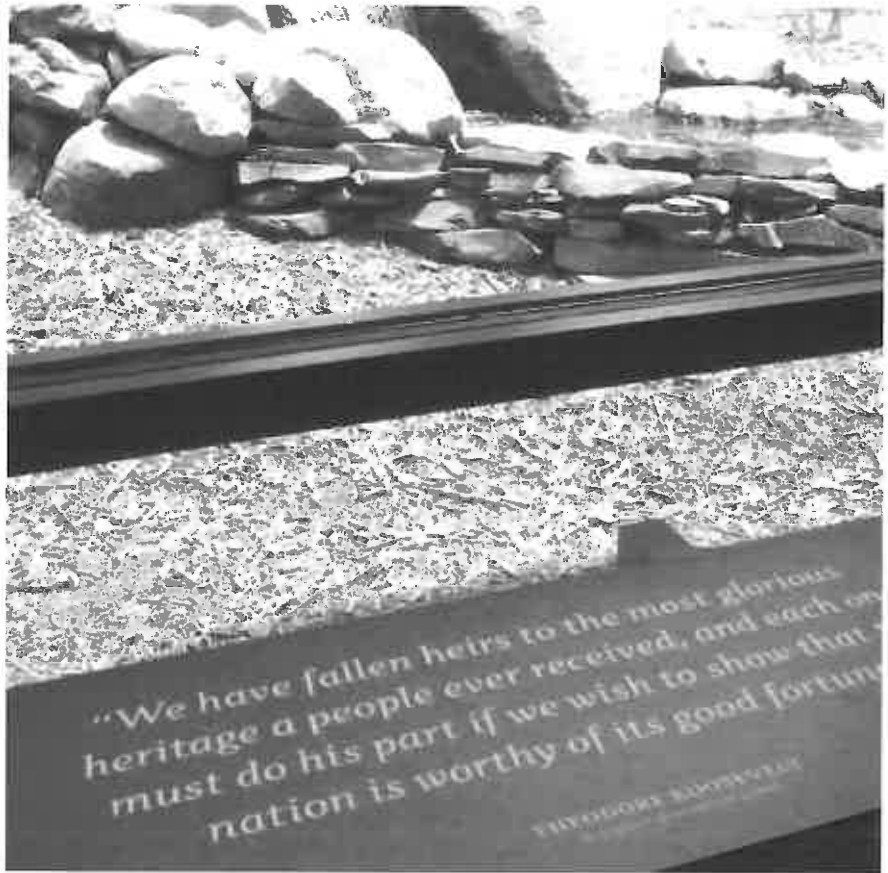


RELEVANT WORK



Above: An indoor water feature provides a sense of place next to the interactive timeline and fossil display.
Below, left to right: Visitors are invited to use bird-watching viewfinders in an outdoor interpretive space. Inside, they are able to explore the diversity of the park through an interactive bird display.





RELEVANT WORK

Henrico County Division of Recreation & Parks Three Lakes Park Nature Center & Aquarium



A pathway guides visitors through the diorama displays and interpretive spaces of the exhibit.

In 2007, Henrico County's Three Lakes Park opened a new natural history and nature center. Riggs Ward designed exhibits for the center that educate visitors about the many species of animals and plants around the park.

A mixture of live animals and interactive exhibits help visitors to connect with the environment they are exploring. Exhibits represent the different systems in air, land, and water, while examining changes from the prehistoric era to today. Features of the space include a rock wall and lake-wall aquarium.

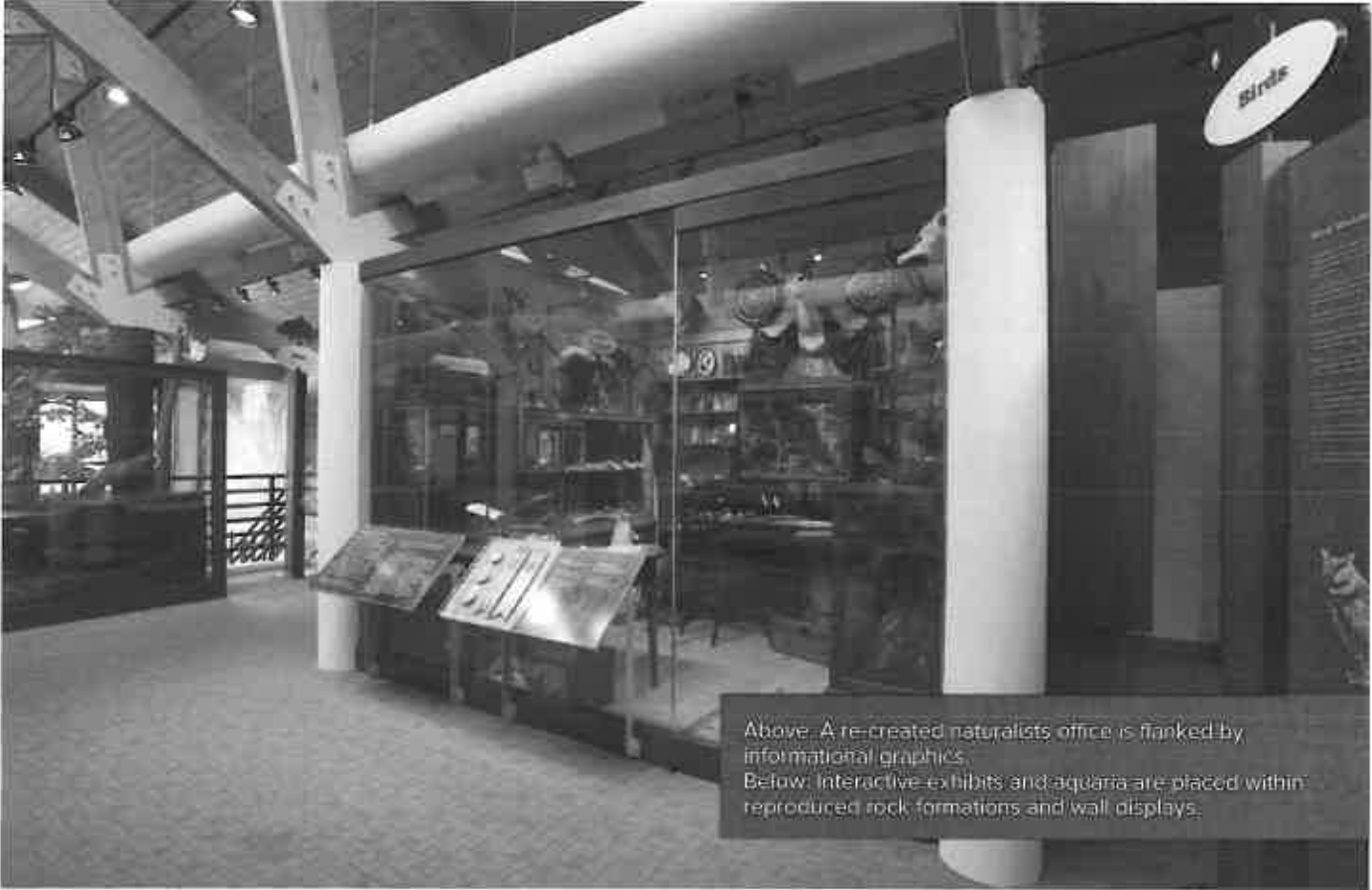
"One of the finest, and most comprehensive nature centers we've visited . . . There was so much to see: An underwater view of a man-made pond, a stuffed black bear, a full-size cutaway replica of a beaver lodge, a variety of live animals . . . even an impressive display of Native American tools."

—Trip Advisor Review



**USA
TODAY
TRAVEL.**

SIMILAR WORK



A mixture of live animals and interactive exhibits help visitors connect to the environment.



RELEVANT WORK

North Carolina Division of Parks & Recreation Merchants Millpond State Park Visitors Center



View of the main gallery space, which highlights various wildlife habitats.

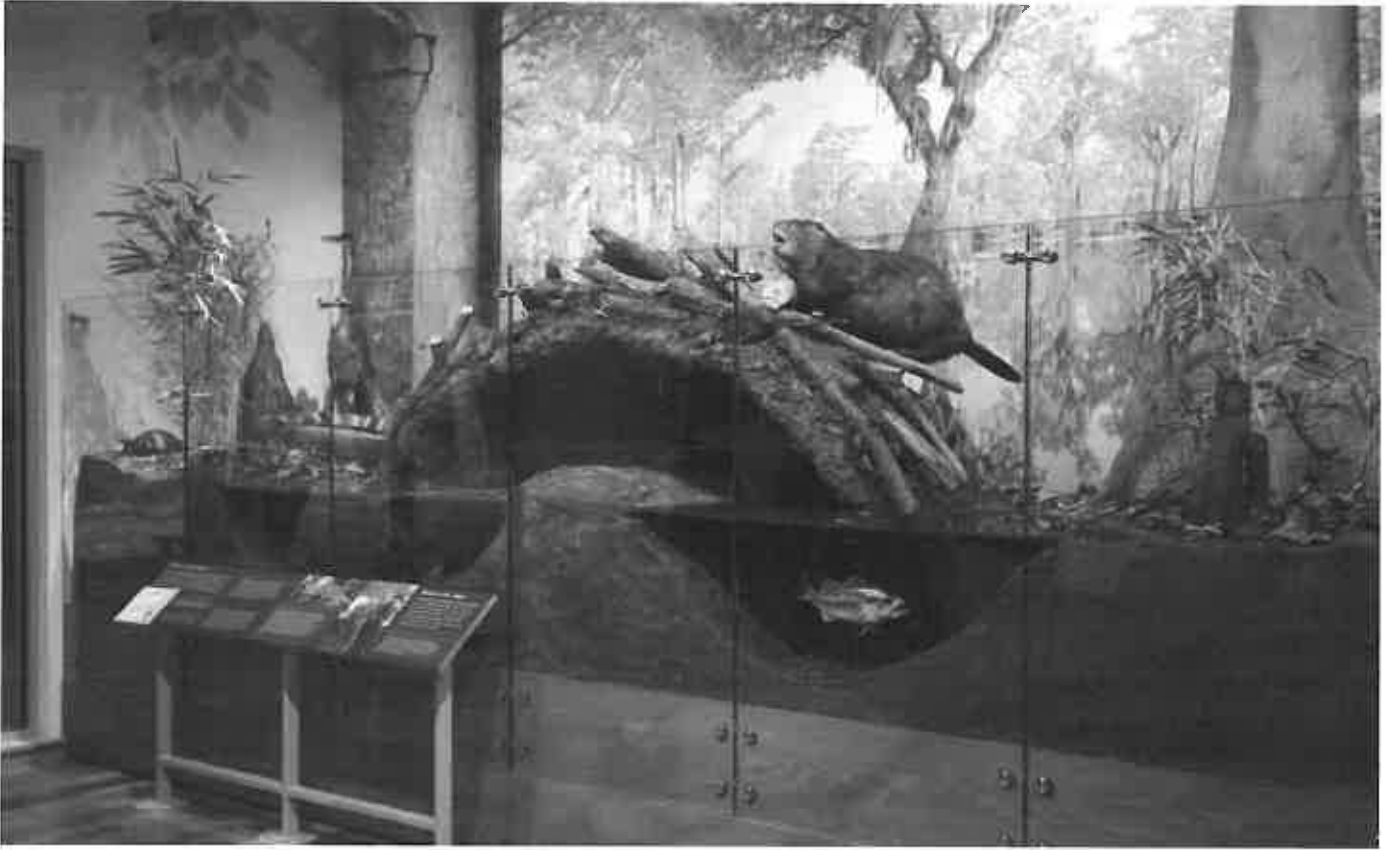
Riggs Ward Design collaborated with Frank Harmon Architect to design Merchants Millpond State Park Visitors Center, where 1,500 square feet of exhibits highlight the wetland ecology, biodiversity, and cultural history of the region. In particular, the exhibits focus on the comparison between unique features of coastal pond, southern swamp forest, pine woodland, and mixed hardwood forest ecosystems within the park's 3,300 acres.

Dioramas of each of the four distinct natural communities are arranged in rows, enabling visitors to view them separately, making connections between the different plant and animal life associated with each, or to view them collectively in a single vista as they explore the grounds. Many of the dioramas represent scenes not visible in the wild, such as the inside of a beaver lodge in the coastal pond diorama. Interactives include a hollowed out cypress tree where visitors go inside to discover the creatures that live in the tree trunk.



FEATURED IN
ARCHITECT

RELEVANT WORK

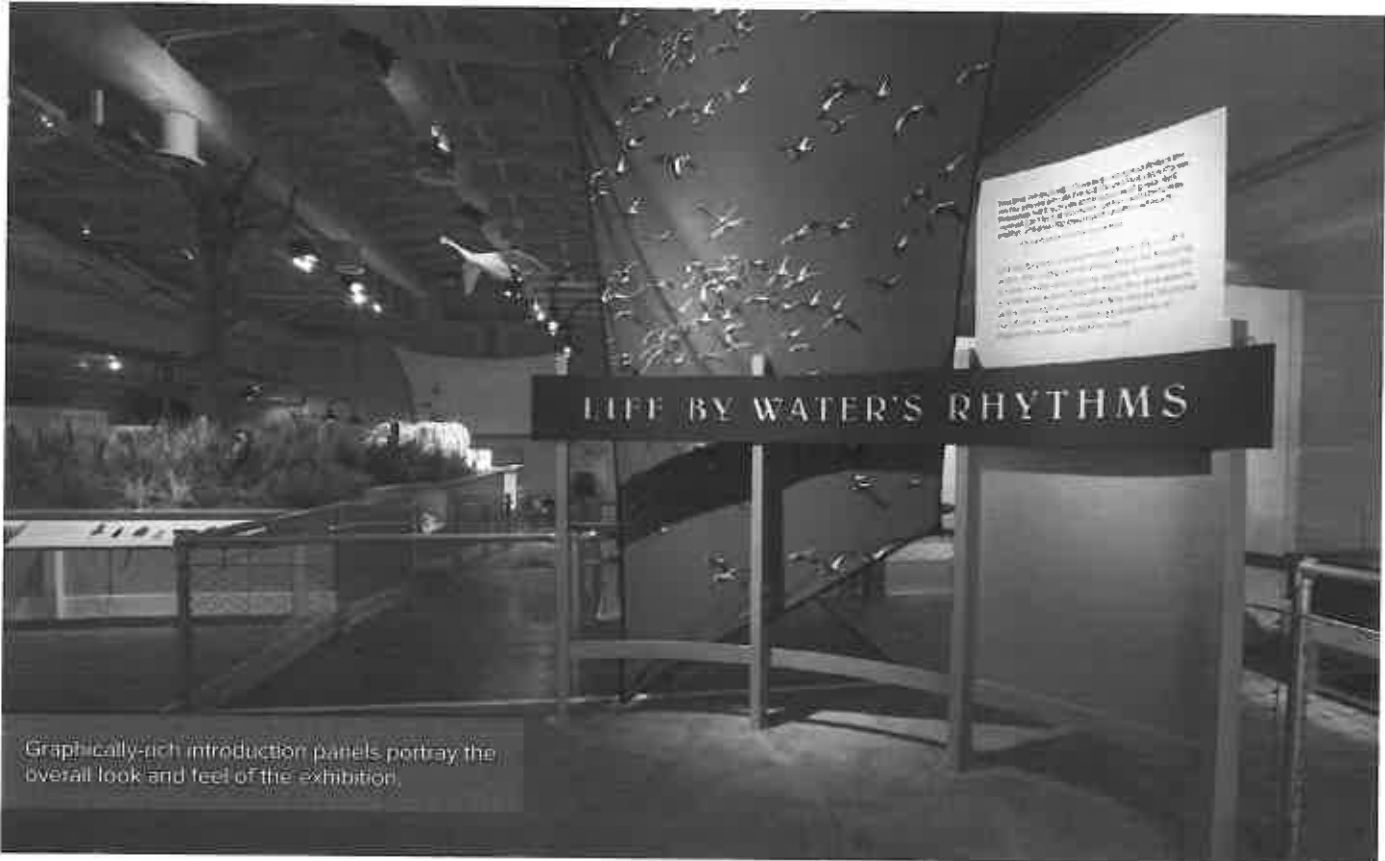


Above: Visitors can view the inner workings of a beaver dam in the freshwater wetland exhibit.
Below: Close-up view of a Bobcat diorama.



RELEVANT WORK

North Carolina Wildlife Resources Commission Outer Banks Center for Wildlife Education



Graphically-rich introduction panels portray the overall look and feel of the exhibition.

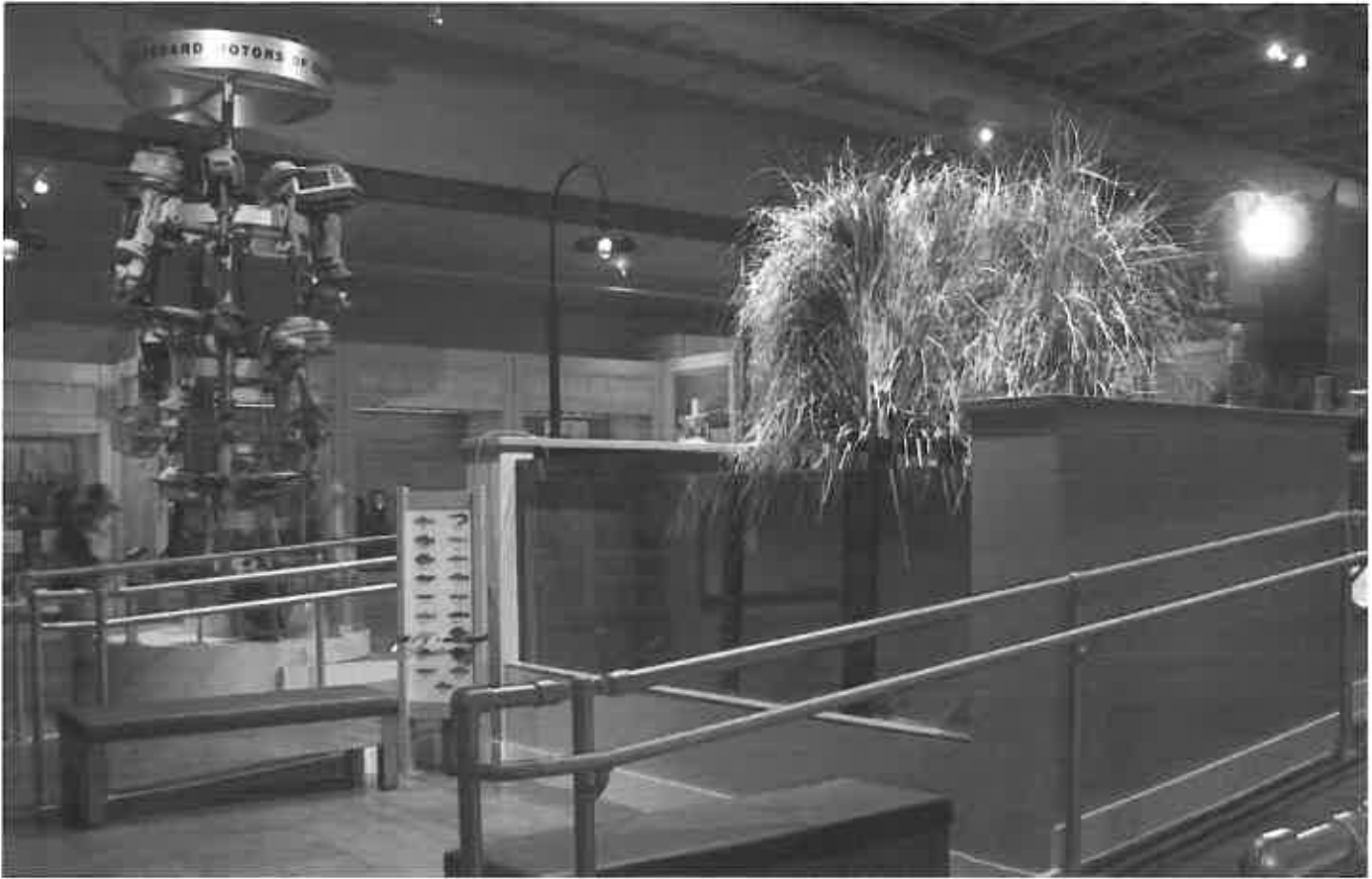
Riggs Ward designed the 5,000 square foot permanent exhibition, "Life by Water's Rhythms," in the Outer Banks Center for Wildlife Education. The gallery features a 8,000 gallon freshwater aquarium with regional species of fish from the Currituck Sound, dramatic wildlife habitat dioramas, one of the nation's largest collections of artisan-made working decoys, hands-on and computer interactives, as well as interpretive displays informing visitors of the region's centuries-old hunting and fishing heritage.

Upon opening in the summer of 2006, this new facility joined the Whalehead Club historic mansion (also featuring exhibits designed by Riggs Ward) and the Currituck Beach Lighthouse in the beautiful 39 acre sound front Currituck Heritage Park.



Riggs Ward worked with Truelove Fabrication to incorporate a 8,000 gallon freshwater aquarium within the main gallery.

SIMILAR WORK



Above: A visitor views the vertical motorboard display, which is adjacent to the freshwater aquarium exhibit. Below (left to right): Wildlife dioramas guide visitors to the aquarium space. Touchscreen interactives and hands-on exhibits provide additional information on the local fishing heritage.



RELEVANT WORK

North Carolina Division of Parks & Recreation Raven Rock State Park



Visitors are greeted by a replica of the "Raven Rock" geological formation.

Riggs Ward was commissioned to provide both indoor and outdoor interpretive displays for the visitors center, exhibit hall, and trail at Raven Rock State Park in Harnett County, North Carolina. As part of the North Carolina Division of Parks and Recreation (NCDPR), RWD complied with various state guidelines related to accessibility, egress, design, and budget. Because education was a primary focus for the client, RWD created displays that told the compelling history of the area, while being careful to maintain the character of the park in the exhibits' design. Raven Rock's new visitor center was a Leadership in Energy and Environmental Design (LEED) certified project; therefore, RWD incorporated energy efficient and sustainable material in the displays.

RWD collaborated closely with NCDPR and the architect, LS3P/Boney Architecture, to make this a successful project.



RELEVANT WORK



Above: An interactive exhibit in the entry gallery allows users to explore the various rock formations.
Below, left to right: A hands-on water pressure interactive; an indigenous plant display.



RELEVANT WORK

Ohio Department of Natural Resources Old Woman Creek National Estuarine Reserve Visitor Center



Riggs Ward recently designed and installed new exhibits in the Ohio Division of Wildlife's Old Woman Creek State Nature Preserve & National Estuarine Research Reserve in Huron, Ohio. The exhibit features numerous hands-on natural science-based exhibits including a 52" touchable map with live video feeds and a 60" touch screen interactive focusing on the stewardship of estuaries. RWD also created a mobile phone application, educational curriculum, and an interpretive/wayfinding signage system for the 572-acre campus.

Estuaries like Old Woman Creek protect Lake Erie by removing pollutants from streams and rivers, ultimately benefitting coastal communities by acting as a buffer against flooding and erosion. The estuary serves as a field laboratory where scientists can study this naturally functioning system and as a place where visitors can learn about estuarine ecology in a natural setting.

"There is a really nice nature center that gives a lot of history of Old Woman Creek (Indians, birds, and water life) [and] exhibits that children can enjoy and learn from. The trails are very well laid out and easy to walk on and follow."

—Trip Advisor Review

RELEVANT WORK



Above: View of the classroom space.
Below, left to right: Taxidermed birds, aquariums, and magnifying glasses allow visitors to get an up-close and personal feel for the wildlife in the area.



RWD created a mobile phone application, educational curriculum, and an interpretive/wayfinding signage system for the 572-acre campus.

RELEVANT WORK

Ohio Department of Natural Resources (Interactives) Old Woman Creek Natural Estuarine Reserve Visitor Center



To complement the new exhibits at the Ohio Division of Wildlife's Old Woman Creek State Nature Preserve & National Estuarine Research Reserve, RWD created a mobile phone application. The application provides a trail map, guides visitors through a color-coded trail system, supplies additional interpretive information for key sites, and uses GPS navigation.

Top to Bottom: A view of the interactive table at the visitor center entry, Two screen-shots of the mobile application: one allows the user to explore the various nature trails by viewing them on a color-coded map and the other highlights the Pole Barn Site.

RELEVANT WORK

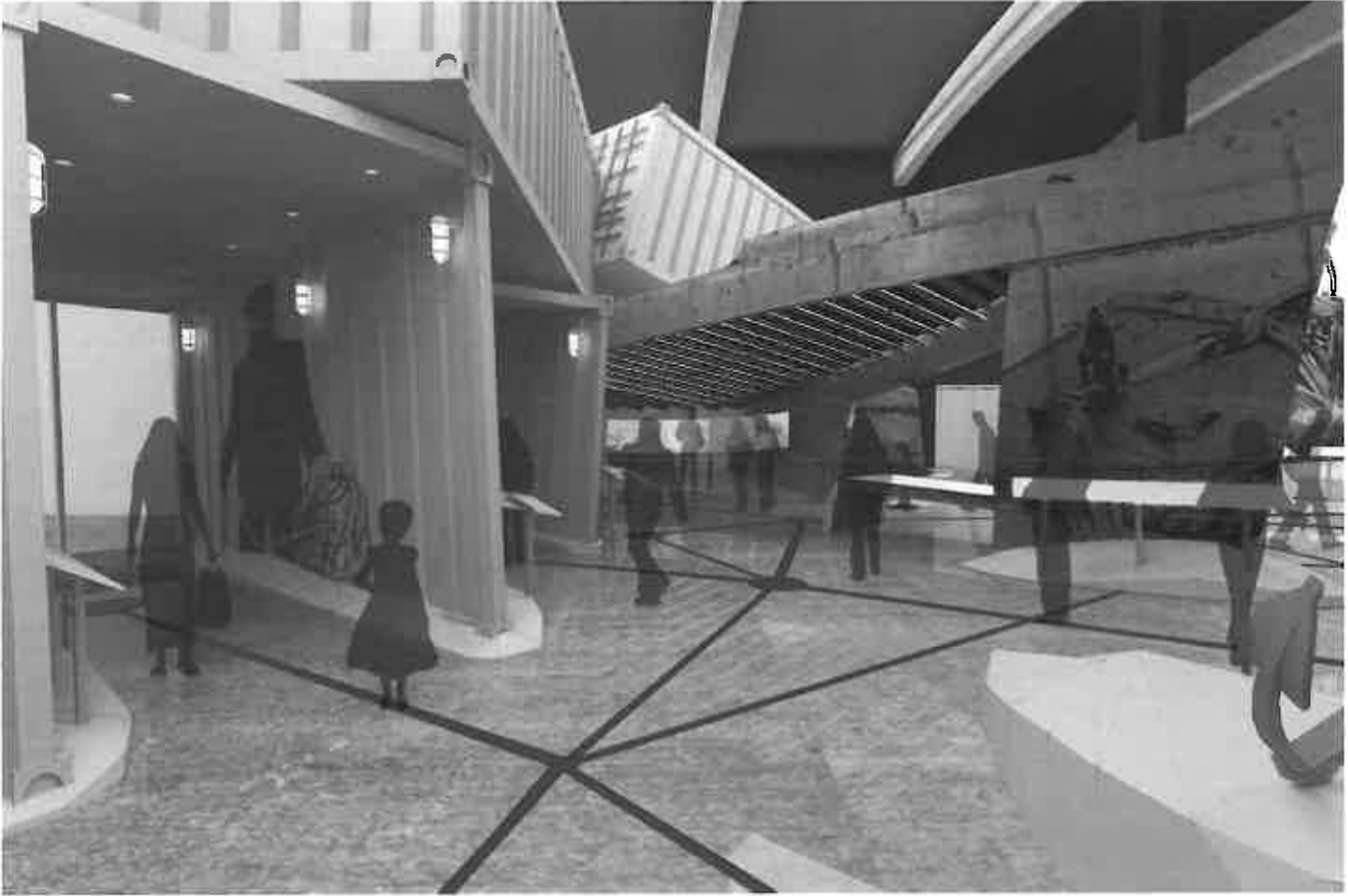
Graveyard of the Atlantic Museum (In Progress) Permanent Exhibit Design



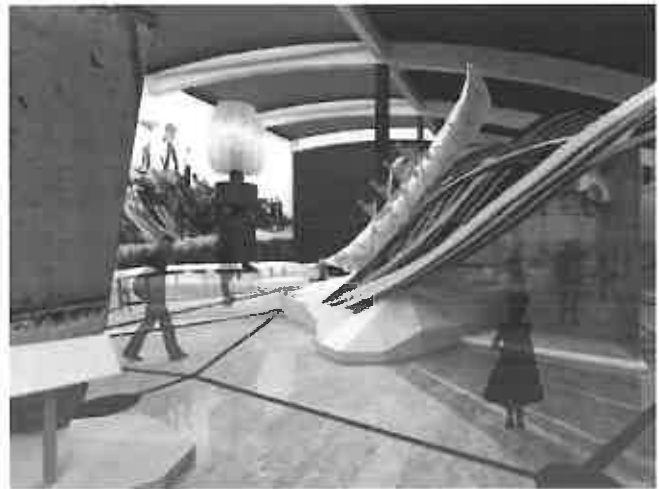
Riggs Ward Design is excited to be working with the North Carolina Department of Cultural History and North Carolina Maritime Museums to create exhibit designs for the 7,000 square foot Graveyard of the Atlantic Museum in Hatteras, NC. The project is currently in the design development phase.

The exhibits will highlight the thousands of vessels and mariners who lost a desperate struggle against the forces of war, piracy and nature off the North Carolina Coast. The exhibits will immerse visitors through scale, environmental graphics, and sound. North Carolina's unique maritime history will be further emphasized through interactive experiences that reveal artifacts, preservation techniques, weather prediction technologies, and modern lifesaving tools.

RELEVANT WORK



Above: Visitors move from the sunken ship structure into the main exhibit gallery, which is flanked by artifact displays in shipping containers.
Bottom, left to right: Interactive coastal maps in the ship's hull. Abstract wave forms and a lifeboat, suggesting the turbulent waves of a storm. Casework below the waves allow vistas into the displays beneath.



RELEVANT WORK

Roanoke Island Festival Park North Carolina Department of Cultural Resources



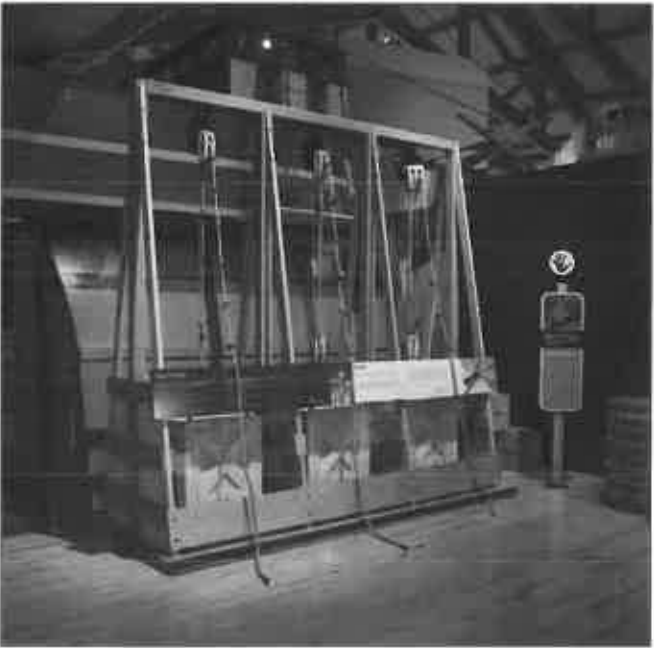
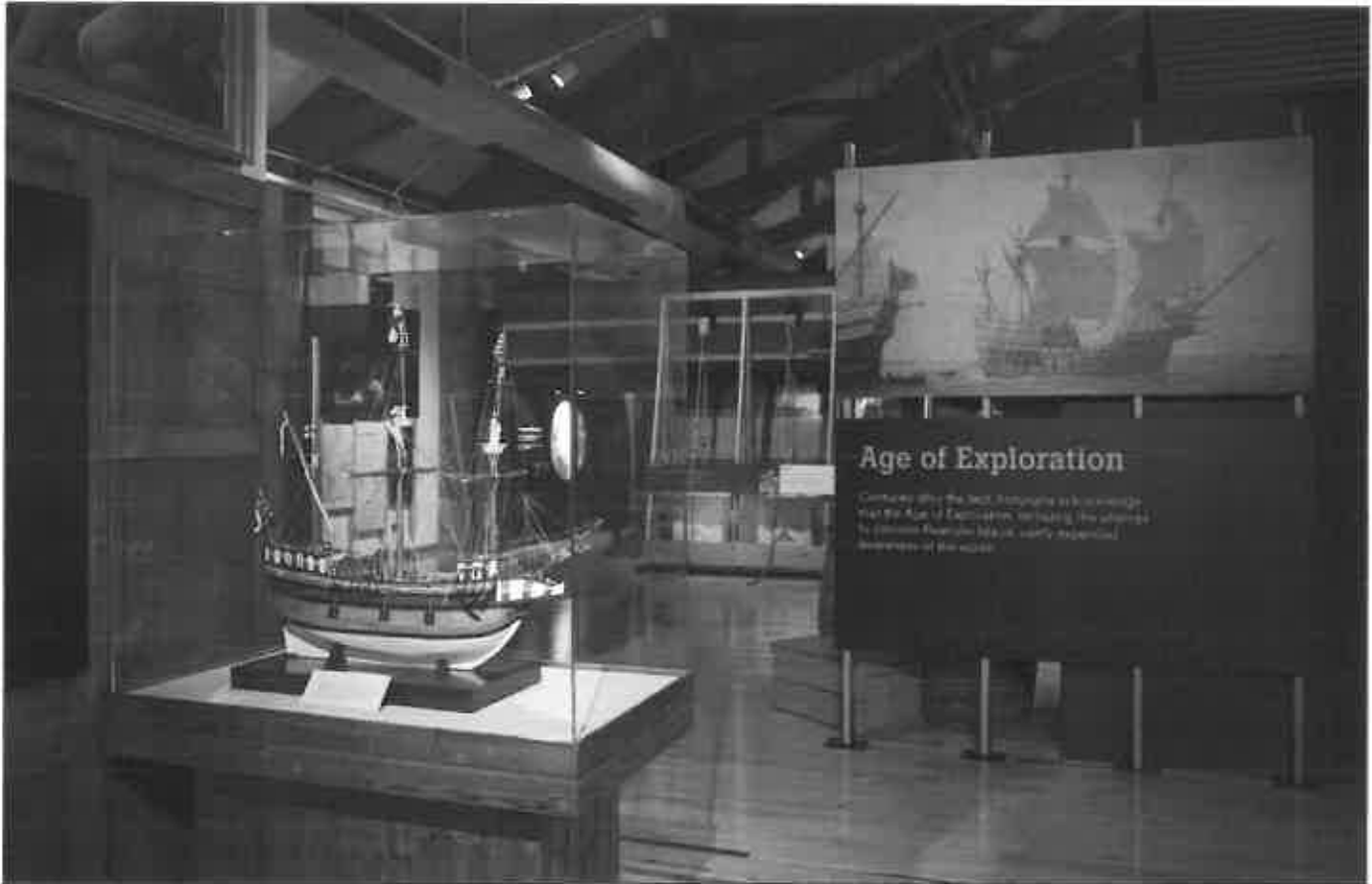
Riggs Ward worked with Roanoke Island Festival Park to enhance the existing 8,000 sf Roanoke Adventure Museum. RWD updated and expanded topical content, incorporated existing core exhibits, implemented “Family Learning” concepts into the overall museum experience, and increased the diversity, frequency and quality of hands-on and interactive exhibits.

Riggs Ward worked closely with the Roanoke Island Festival Park staff on programming and planning activity stations, improving guest traffic flow, and more fully integrating the museum experience into the overall educational program at Roanoke Island Festival Park.

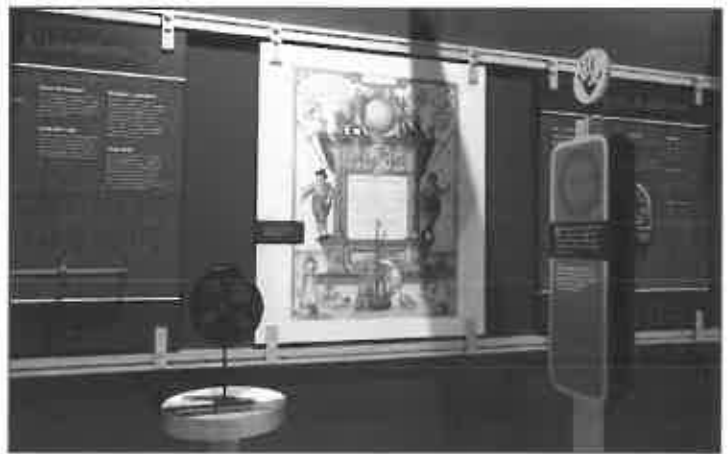


The 8,000 sf exhibit space consists of multiple hands-on experiences, such as a pulley interactive, a pirate clothing dress-up station, and nets for children to cast out of a boat.

RELEVANT WORK

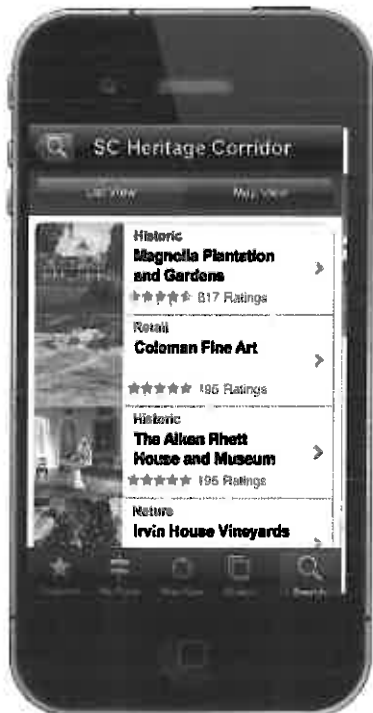


Above. Artifact displays are complemented by large-scale graphics that guide visitors throughout the themed exhibit spaces. Bottom, left to right. A pulley interactive allows visitors to experience the strength needed to lift cargo. View of a hands-on interactive zone.



RELEVANT WORK

SC Department of Parks, Recreation & Tourism S.C. National Heritage Corridor Region IV Discovery Center



The South Carolina National Heritage Corridor (SCNHC) is an economic development program that promotes heritage tourism. Many of the sites and stops along the Corridor are locally owned heritage, arts, and culture venues that operate on small budgets. The SCNHC commissioned Riggs Ward to produce a mobile phone application that would deliver real-time content to visitors. The application was a major leap for the marketing and educational needs of the heritage sites, historic homes, arts centers, and museums along the Corridor.

Riggs Ward created a simple, economic, and incredibly powerful application. Visitors simply download the SCNHC App from Apple's store online, in visitor centers along the Corridor, sites with Wi-Fi access, or through the iPhone's cellular connection anywhere there is a cellular signal. The app provides GPS-enabled, turn-by-turn directions from site-to-site. The visitor merely selects a site or builds an itinerary of several sites, saves it to "My Routes," and presses start; the application does the rest. Once at a site, the application can be used to purchase tickets, video tours, audio tours, interactive site/gallery guides, and even gift shop purchases.

Top to Bottom: A screen-shot of the mobile website and a screen-shot of the mobile application, which lists sites both in a list form and in a map form.

RELEVANT WORK

The following list includes just a few of our relevant projects. Please see the attached information and project sheets for more details.

WEST VIRGINIA UNIVERSITY

Riggs Ward created a highly immersive visitor experience at West Virginia University in Morgantown, West Virginia. The center was designed to be a focal point for all visitors to the central campus. Riggs Ward's exhibits and interior designs are complemented by interactive experiences to make the visitor experience truly memorable.

LOCATION OF PROJECT Morgantown, West Virginia
PROJECT MANAGER Bob Riggs
briggs@riggsward.com
Visitor Center
TYPE OF PROJECT Please see project sheet.
PROJECT GOALS & OBJECTIVES Ms. Danica Wilburn, Director
REFERENCE One Waterfront Place
PO Box 6693
Morgantown, WV, 26506
304.293.3489

VIRGINIA TECH

Riggs Ward, in collaboration with Glave and Holmes Associates, designed a new Virginia Tech Visitor and Undergraduate Admissions Center. Throughout the Virginia Tech Center, RWD highlights key elements of being a Hokie: cheering fans in Lane Stadium, the Hokie Bird, and the iconic Burruss Hall.

LOCATION OF PROJECT Blacksburg, Virginia
PROJECT MANAGER Bob Riggs
briggs@riggsward.com
Visitor Center
TYPE OF PROJECT Please see project sheet.
PROJECT GOALS & OBJECTIVES Mr. Christopher Clough
REFERENCE Virginia Tech
1 Medial Building (0109)
Blacksburg, VA 24061
540.231.4168

BETHLEHEM VISITOR CENTER

Designed to promote the many messages and destinations of local organizations and events, the center features a combination of interactive kiosks, as well as more traditional static displays.

LOCATION OF PROJECT Bethlehem, Pennsylvania
PROJECT MANAGER Mike Radtke
mradtke@riggsward.com
Visitor Center
TYPE OF PROJECT Please see project sheet.
PROJECT GOALS & OBJECTIVES Mr. Ron Unger, Director of
REFERENCE Special Projects
610.332.1328
runger@artsquest.org

SHENANDOAH RIVER STATE PARK RAYMOND "ANDY" GUEST VISITOR CENTER

Riggs Ward's design includes an area for housing both temporary and permanent exhibits, interactive displays that allow visitors to follow the area's historic timeline, as well as three-dimensional artifacts.

LOCATION OF PROJECT Bentonville, VA
PROJECT MANAGER Bob Riggs
briggs@riggsward.com
Nature Center/Visitor Center
TYPE OF PROJECT Please see project sheet.
PROJECT GOALS & OBJECTIVES Mr. Tony Widmer
REFERENCE 350 Daughter of Stars Drive
Bentonville, VA 22610
(540) 622-6840
Tony.Widmer@dcr.virginia.gov

THREE LAKES PARK NATURE CENTER & AQUARIUM

Riggs Ward designed exhibits for the center that educate visitors about the many species of animals and plants found throughout the park.

LOCATION OF PROJECT Richmond, Virginia
PROJECT MANAGER Bob Riggs
briggs@riggsward.com
Nature Center/Visitor Center
TYPE OF PROJECT Please see project sheet.
PROJECT GOALS & OBJECTIVES Neil Luther (Retired)
REFERENCE County of Henrico Division of
Recreation and Parks
Office: 804-501-5119
lut08@co.henrico.va.us

MERCHANTS MILLPOND STATE PARK VISITORS CENTER

Riggs Ward Design collaborated with Frank Harmon Architect to design Merchants Millpond State Park Visitors Center, where 1,500 square feet of exhibits highlight the wetland ecology, biodiversity, and cultural history of the region.

LOCATION OF PROJECT Gatesville, North Carolina
PROJECT MANAGER Bob Riggs
briggs@riggsward.com
Nature Center/Visitor Center
TYPE OF PROJECT Please see project sheet.
PROJECT GOALS & OBJECTIVES Mr. Jay Greenwood
REFERENCE Park Superintendent,
Merchants Millpond State Park
252.357.1191

RELEVANT WORK

OUTER BANKS CENTER FOR WILDLIFE EDUCATION
Riggs Ward designed the 5,000 square foot permanent exhibition, "Life by Water's Rhythms," which features various interpretive displays that inform visitors of the region's centuries-old hunting and fishing heritage.

LOCATION OF PROJECT Corolla, North Carolina
PROJECT MANAGER Bob Riggs
briggs@riggsward.com
TYPE OF PROJECT Nature Center/Visitor Center
PROJECT GOALS & OBJECTIVES Please see project sheet.
REFERENCE Ms. Ginger S. Mangum
1704 Mail Service Center
Raleigh, NC 27699
919.707.0171
ginger.mangum@ncwildlife.org

RAVEN ROCK STATE PARK
Riggs Ward was commissioned to provide both indoor and outdoor interpretive displays for the visitors center, exhibit hall, and trail at Raven Rock State Park in Harnett County, North Carolina.

LOCATION OF PROJECT Lillington, NC
PROJECT MANAGER Mike Radtke
mradtke@riggsward.com
TYPE OF PROJECT Nature Center/Visitor Center
PROJECT GOALS & OBJECTIVES Please see project sheet.
REFERENCE Architect
Mr. Chris Roberts LS3P
Architects
919.829.2700
434 Fayetteville Street
Suite 1700
Raleigh, NC 27601

OLD WOMAN CREEK NATURAL ESTUARINE RESEARCH RESERVE VISITOR CENTER (AND MOBILE APPLICATION)
Riggs Ward recently designed and installed new exhibits that are hands-on and natural science-based. Riggs Ward also developed a mobile phone application that displays the various trails on the Reserve.

LOCATION OF PROJECT East Huron, OH
PROJECT MANAGER Mike Radtke
mradtke@riggsward.com
TYPE OF PROJECT Nature Center/Visitor Center
PROJECT GOALS & OBJECTIVES Please see project sheet.
REFERENCE Mr. Frank Lopez
Old Woman Creek NERR
2514 Cleveland Road East
Huron, Ohio 44839
419.433.4601
frank.lopez@dnr.state.oh.us

GRAVEYARD OF THE ATLANTIC MUSEUM (IN PROGRESS)
Riggs Ward Design is creating exhibit designs for the new permanent display within the 7,000 square foot Graveyard of the Atlantic Museum in Hatteras, NC.

LOCATION OF PROJECT Hatteras, North Carolina
PROJECT MANAGER Bob Riggs
briggs@riggsward.com
TYPE OF PROJECT Museum/Visitor Center
PROJECT GOALS & OBJECTIVES Please see project sheet.
REFERENCE N/A

ROANOKE ISLAND FESTIVAL PARK
Riggs Ward worked with Roanoke Island Festival Park to enhance the existing 8,000 sf Roanoke Adventure Museum and to update and expand topical content.

LOCATION OF PROJECT Manteo, North Carolina
PROJECT MANAGER Bob Riggs
briggs@riggsward.com
TYPE OF PROJECT Museum/Visitor Center
PROJECT GOALS & OBJECTIVES Please see project sheet.
REFERENCE Kimberly A. Sawyer
Executive Director
One Festival Park
Manteo, NC 27954
252-475-1500, ext. 226

S.C. NATIONAL HERITAGE CORRIDOR REGION IV DISCOVERY CENTER
The SCNHC commissioned Riggs Ward to produce a mobile phone application that would deliver real-time content to visitors.

LOCATION OF PROJECT Blackville, SC
PROJECT MANAGER Bob Riggs
briggs@riggsward.com
TYPE OF PROJECT Museum/Visitor Center
PROJECT GOALS & OBJECTIVES Please see project sheet.
REFERENCE Ms. Michelle McCollum
PO Box 477
Belton, SC 29627
864.338.4841
michelle@scnhc.com



West Virginia University Visitor's Resource Center | Morgantown, WV

This project is a 4,200 SF renovation to the Visitor Resource Center in the One Waterfront Building. It features a state-of-the-art theater and high-tech interactive exhibit displays to inform prospective students about the University.

Owner: West Virginia University

Project Manager: John Schramers - (304) 293-2856

Completion: Spring 2012

Cost: \$1 Million

Size: 4,200 Square Feet

Delivery Type: Design-Bid-Build

Contractor: March-Westin Company, Inc



Camp Washington-Carver Performing Arts Stage & Support Building | Clifftop, WV

Camp Washington-Carver in Fayette County, West Virginia, was opened in 1942 as a 4-H camp for African-Americans, the first of its kind in the nation. The Great Chestnut Lodge, built by the U. S. Works Progress Administration, was completed in the same year. It is a structure that was placed, along with the entire site, on the U. S. Secretary of the Interior's National Register of Historic Places in 1980. The two primary structures are: a) the permanent, performing arts stage and b) the support building which will house dressing rooms and storage for audio/video equipment.

**Great Chestnut Lodge is listed on the
National Register of Historic Places
Coordinated with the State Historic Preservation Office**

Owner: West Virginia Division of Culture & History

Completed: TBD

Cost: \$850,000

Size: 885 Square Feet (stage); 1,415 (support building)

Delivery Type: Design-Bid-Build

Contractor: TBD



Canaan Valley Resort State Park Renovations & Additions | Davis, WV

Situated in one of the most scenic and tranquil settings in the Mid-Atlantic, with unlimited recreation and family-focused activities, Canaan Valley Resort is a four-season destination providing the perfect escape from the pressures of daily life. The construction/renovations was administered in phases and included the construction of two brand new guest wings (162 rooms) along with extensive refurbishing of the main lodge (where the front desk, meeting rooms, dining room, and indoor pool are located).

**Coordinated with the State Historic Preservation Office
Eligible for National Register of Historic Places**

Owner: West Virginia Division of Natural Resources

Owner's Representative & Phone: Brad Leslie, PE; 304.558.2764

Completed: Fall 2013

Size: 102,534 SF (addition); 64,993 SF (renovation)

Cost: \$25 Million

Delivery Type: Design-Bid-Build

Contractor: Harbel, Inc.



Cacapon Resort State Park Lodge Expansion | Berkeley Springs, WV

Located in the eastern panhandle of West Virginia, Cacapon Resort State Park is available for both family vacations and business retreats, offering access to golf, lake, and camping activities. The facility functions as the main lodging and meeting center of the resort and offers a mix of hotel rooms and suites, and a conference center. The new addition provides an additional 79 guest rooms, swimming pools, new dining facilities and commercial kitchen, and a spa and fitness area. Additional renovations to the resort includes golf course upgrades, as well as water and wastewater treatment upgrades.

Owner: West Virginia Division of Natural Resources

Owner's Representative: Bradley S. Leslie, PE

Phone: 304.558.2764

Completed: TBD

Cost: \$22 Million

Size: 63,669

Delivery Type: Design-Bid-Build Competition

Contractor: TBD

Coordinated with the
State Historic Preservation Office
Eligible for National Register of Historic Places

References

Mr. Brad S. Leslie

WV Department of Natural Resources
Parks and Recreation Section
324 Fourth Avenue, Room 203
South Charleston, WV 25303
(304) 558-2764
Brad.S.Leslie@wv.gov

Mr. Don Brenneman

President
Beitzel Corporation
12072 Bittiner Road
Grantsville, MD 21536
(301) 245-4107 Ext. 2223
donbrenneman@beitzelcorp.com

Mr. John Sommers

WVU Facilities Management
Design & Construction Services
PO Box 6572
Morgantown, WV 26506-6572
John.Sommers@mail.wvu.edu

Mr. Mark Nesselroad

Chief Executive Officer
Glenmark Holding LLC
6 Canyon Road, Suite 300
Morgantown, WV 26508-9232
(304) 599-3369
mnesselroad@glenmarkholding.com

Mr. Rich Lane

Petroplus & Associates, Inc.
Platinum Properties
Two Waterfront Place, Suite 1201
Morgantown, WV 26501
(304) 284-5000
Lane@petropluslane.com

Mr. John Thompson

Manager of Construction Services
West Virginia University
979 Bowley Avenue
Morgantown, WV 26506-4629
(304) 293-3625
John.Thompson@mail.wvu.edu



Project Team



Paul A. Walker, AIA

Principal-in-Charge

Paul has 33 years of experience as an architect and received his registration in 1986. He became a business owner in October 2000 when he created Paradigm Architecture. Paul's design responsibilities include programming, development of construction documents, project management, and construction administration. Among the variety of projects he has designed and supervised are: performing arts, medical, commercial, corporate, educational, governmental, industrial, institutional, recreational, religious, and residential. The scope of projects ranges from a few thousand dollars to over 30 million dollars. Paul also has extensive experience with commercial and corporate facilities as well as higher education facilities while working at other firms in WV, NC, and AL.

Experience

West Virginia University Foundation
Visitors Resource Center
Morgantown, West Virginia

West Virginia University
Coliseum Visitors Center
Morgantown, West Virginia

Canaan Valley Resort State Park Renovations & Additions
Davis, West Virginia

Cacapon Resort State Park Lodge Expansion
Berkeley Springs, West Virginia

Camp Washington Carver Performing Arts Stage & Support Building
Clifftop, West Virginia

West Virginia University Creative Arts Center Expansion/Renovation
Morgantown, West Virginia

Morgantown Event Center & Parking Garage
Morgantown, West Virginia

Two Waterfront Place Hotel & Conference Center & Condos
Morgantown, West Virginia

The Will Rodgers Auditorium*
Fort Worth, Texas

Riverpark Center, Performing Arts & Civic Center*
Cwensboro, Kentucky

Woodrow Wilson High School Performing Arts Center*
Beckley, West Virginia

Education

Bachelor of Architecture
University of Tennessee
Knoxville, 1982

Affiliations

American Institute of Architects
NCARB #53858

Registrations

West Virginia # [REDACTED]
Alabama [REDACTED]
Arizona [REDACTED]
Florida # [REDACTED]
Maryland # [REDACTED]
North Carolina [REDACTED]
Pennsylvania # [REDACTED]
South Carolina # [REDACTED]
Tennessee [REDACTED]
Virginia # [REDACTED]

*Key involvement in project with firm(s) other than Paradigm Architecture, Inc.

The West Virginia Board of Architects

certifies that

PAUL A WALKER

is registered and authorized to practice
Architecture in the State of West Virginia.

In testimony whereof this certificate has been issued
by the authority of this board.

Certificate Number [REDACTED]

The registration is in good standing until June 30, 2016.



Leya C. Lewis

Board Administrator

Grant T. Gramstad, AIA

Project Manager

Mr. Gramstad has 23 years of experience in the design industry as an architect. He is one of the founding members of Paradigm Architecture and is the Architect of Record for all of the firms' Alabama projects. Located in the Birmingham office, his experience includes multiple higher education clients, including West Virginia University, Fairmont State University, and the WV School of Osteopathic Medicine. Grant has recently completed projects for the Mountaintop Community Church Family Life Center and Ridout's Trussville Chapel renovation. Currently, he is working on a major hotel renovation project in Morgantown. His roles have included project management, design, and supervision of small to large scale architectural projects. Project experience includes commercial, corporate, educational, governmental, healthcare, industrial, institutional, recreational, and residential.

Experience

West Virginia University Foundation
Visitors Resource Center
Morgantown, West Virginia

Cacapon Resort State Park Lodge Expansion
Berkeley Springs, West Virginia

Trussville Family Fun Center
Trussville, Alabama

Mountaintop Community Church
Family Life Center
Vestavia, Alabama

University Park Student Housing/Retail
Morgantown, West Virginia

Waterfront Marina & Boathouse Bistro
Morgantown, West Virginia

Trussville Greenway Project - Phase II
Trussville, Alabama

American Red Cross Miscellaneous Projects
Nationwide & Puerto Rico

United States Department of Energy Records Storage Facility
Morgantown, West Virginia

West Virginia University Downtown Student Housing
Morgantown, West Virginia

Education

*Master of Architecture
Tulane University
New Orleans, Louisiana, 2004*

*Bachelor of Architecture
Tulane University
New Orleans, Louisiana, 1993*

*University of Bath
Bath, England
Junior Year Abroad, 1991-1992*

*Affiliations
American Institute of Architects*

Registrations

Alabama [REDACTED]

David H. Snider, AIA

Quality Control | Specifications

Mr. Snider graduated from Auburn University with a degree in architecture and practiced in North Carolina before returning to his hometown of Birmingham, Alabama. As one of the founding members he has spent the last 15 years of his 32-year career with Paradigm Architecture. His responsibilities with Paradigm Architecture have included project management, construction documents, contract administration, and writing specifications. Project experience includes hospitality, educational, healthcare, churches, libraries, schools, historic office buildings, airports, and commercial facilities. David has extensive experience with healthcare facilities throughout the duration of his entire career and currently manages open-end contracts with Russell Medical Center and Lanier Memorial Hospital. These project types include cancer centers, medical office buildings, physical therapy, assisted living facilities, and major hospital renovations.

Experience

West Virginia University Foundation
Visitors Resource Center
Morgantown, West Virginia

Canaan Valley Resort State Park Renovations & Additions
Davis, West Virginia

Cacapon Resort State Park Lodge Expansion
Berkeley Springs, West Virginia

Camp Washington Carver Performing Arts Stage & Support Building
Clifftop, West Virginia

University Park Student Housing/Retail
Morgantown, West Virginia

West Virginia University College Park
Morgantown, West Virginia

West Virginia University Downtown Student Housing
Morgantown, West Virginia

Morgantown Event Center & Parking Garage
Morgantown, West Virginia

Two Waterfront Place Hotel & Conference Center & Condos
Morgantown, West Virginia

Education

*Bachelor of Architecture
Auburn University
Alabama, 1984*

Roofing Technology

*The Roofing Industry
Educational Institute, 1995*

Affiliations

American Institute of Architects

Tyler Etris, Associate AIA

Project Architect | Design

Tyler's responsibilities have included development of schematic design, design development, and construction drawings. While a student at the University of Tennessee, he taught AutoCAD and 3dsMax and other computer skills. He has been with Paradigm since 2007 and has provided marketing support for proposals and presentations. Project types have included healthcare, commercial, corporate, educational, hospitality, institutional, and retail.

Experience

University Place Parking Garage
Morgantown, West Virginia

West Virginia University Intermodal Garage
Morgantown, West Virginia

University Park Student Housing & Condos/Retail
Morgantown, West Virginia

Canaan Valley Resort State Park Renovations & Additions
Davis, West Virginia

Cacapon Resort State Park Lodge Expansion
Berkeley Springs, West Virginia

Morgantown Event Center & Parking Garage
Morgantown, WV

West Virginia University College Park
Morgantown, West Virginia

Wintergreen Resort Lodge
Wintergreen, Virginia

West Virginia University Downtown Student Housing
Morgantown, West Virginia

Education

*Bachelor of Architecture
College of Architecture
NAAB Accredited Program
University of Tennessee
Knoxville, 2011*

*Krakow Polytechnic University
Krakow, Poland
Spring 2010*

Affiliations

American Institute of Architects

Registrations

West Virginia



BOB RIGGS

PRINCIPAL & CREATIVE DIRECTOR

As Principal and Creative Director of Riggs Wills Design (RWD), Mr. Riggs provides creative direction for all aspects of the design process. Mr. Riggs brings a strong background in conceptualizing, designing, producing, and implementing large and complex exhibit and graphic design projects. Mr. Riggs has acquired credits for some of the nation's most respected organizations, including the Smithsonian Institution, the Library of Congress, the U.S. Department of the Interior, and the Colonial Williamsburg Foundation. He has also won numerous awards and provided in-class critiques to students of Virginia Commonwealth University's graphic design program, which is ranked #1 Public Graphic Design Program in the country.

Relevant Work

Employment History

Franklin Street Communications

Exhibit Manager, April 1996 – September 1997

Mr. Riggs was included in all phases of the exhibit design process, from programming to construction administration

1717 Design Group

Senior Exhibit Designer, February 1989 – April 1996

While at 1717, Riggs worked on as an exhibit designer on a number of projects, including:

- Colonial Williamsburg: Rockefeller Library
- Historic Charleston Foundation
- Library of Congress: Rome Reborn
- Library of Virginia: The Common Wealth
- Virginia Museum of Fine Arts: Fabergé in America

Select RWD Experience

Exhibition

Atlanta History Center

Hampton History Museum

LBJ Presidential Library and the Briscoe Center at the University of Texas at Austin: *Crankite: Eyewitness to A Century*

Library of Congress:

- Churchill and the Great Republic*
- New Visitor Experience*
- The Last Full Measure: Civil War Photographs from the Liljenquist Collection*

Museum of the Confederacy - Appomattox: Permanent Exhibit

National Park Service: Richmond National Battlefields

St. Charles County Parks and Recreation Department:

St. Charles County Heritage Museum

Valentine Richmond History Center:

- This Is Richmond*
- War is Hell*

Virginia Historical Society: *Virginians at Work*

Virginia Museum of Fine Arts: *Fabergé Revealed*

Woodrow Wilson Presidential Museum and Library:

- Hinge to the 20th Century*
- World War I: The Doughboy War*

Interpretive Signage

Civil War Interpretive Center at Historic Blenheim

Currituck Heritage Park: Whalehead Club

Pamplin Historical Park

Wicomico County, MD Recreation, Parks and Tourism:
Pemberton Historical Park

Master Planning

Atlanta History Center

Library of Congress: New Visitor Experience

Smithsonian Institution: Ocean Hall Conceptual Design

Mobile Exhibition

Library of Congress: *Gateway to Knowledge*

Virginia Sesquicentennial Commission: Virginia Civil War 150
HistoryMobile

Traveling Exhibition

Contemporary Art Center of Virginia:

Magna Carta and Four Foundations of Freedom

Virginia Historical Society: *An American Turning Point: The Civil War in Virginia*

Library of Congress: *With Malice to None: The Abraham Lincoln Bicentennial Exhibit*

Visitor Center

County of Henrico:

Three Lakes Park Nature Center and Aquarium

North Carolina Dept. of Environment and Natural Resources:

Outer Banks Center for Wildlife Education

North Carolina Division of Parks and Recreation:

Merchants Millpond State Park

Raven Rock State Park

South Carolina National Heritage Corridor:

Region II: Discovery Center

Region III: Discovery Center and Retail Area

U.S. Department of Agriculture, National Forest Service:

James R. Wilkins CCC Visitor Center

West Virginia University Visitor Resource Center

Education and Honors

Mr. Riggs earned his Bachelor of Fine Arts, with a Concentration in Communication and Design, from Virginia Commonwealth University in 1989. He has received numerous awards, including the Washington Book Publishers Design Award, Print Casebooks: Best in Exhibition Design, the Potlach Award of Merit, and the American Association of Museums – Publication Design.



BRENT WARD

PRINCIPAL & PROJECT MANAGER

As RWD's Managing Principal, Mr. Ward works closely with the design staff to plan, develop, and supervise each project. With a background in museum interpretation and conservation, he helps the design staff conceptualize themes and concepts, address staff needs, management, product requirements, conservation techniques, and materials. He also prepares exhibit flowcharts, planning aids, and is adept at integrating new technologies into traditional design techniques.

Relevant Work

EMPLOYMENT HISTORY

Franklin Street Design

Director of Museum Services, 1996 - 1997

Mr. Ward was a project manager for a variety of exhibitions and museum-related developments.

Valentine Museum

Museum Educator, July 1994 – Aug 1996

Assisted with the development and interpretation of the Wickham House and providing site interpretation of the following subjects: African-Americans in 19th Century Richmond; The Powhatan Tribes; Richmond's Hollywood Cemetery; Richmond: Capitol of the Confederacy

Virginia Historical Society

December 1993 – December 1994

Brent worked with the collections staff to catalog and conserve the Society's rare collection of photographs and glass plate negatives.

Select RWD Experience

Exhibition

Hampton History Museum

LBJ Presidential Library and the Briscoe Center at the

University of Texas at Austin: *Cronkite: Eyewitness to A Century*

Library of Congress:

Churchill and the Great Republic

From the Home Front and the Front Lines

Exploring the Early Americas

Life of the People

The Last Full Measure: Civil War Photographs from the Liljenquist Collection

National Park Service: Richmond National Battlefields

North Myrtle Beach Historical Museum (in development)

University of Virginia Special Collections Library:

Flowerdew Hundred: Unearthing Virginia's History

Best Sellers: Popular Fiction in America

Valentine Richmond History Center: *War is Hell*

Virginia Historical Society: *Virginians at Work*

Woodrow Wilson Presidential Museum and Library:

Hinge to the 20th Century

World War I: The Doughboy War

Interpretive Signage

National Park Service Natchez Trace Parkway

Civil War Interpretive Center at Historic Blenheim

Currituck Heritage Park: Whalehead Club

Pamplin Historical Park

Shreveport Bossier Convention and Visitors Bureau: Northwest Byway Interpretive Signage

University of Arkansas - Fort Smith: Drennen - Scott House

Wicomico County, MD Recreation, Parks and Tourism:

Pemberton Historical Park

Master Planning

Atlanta History Center

Appomattox Court House National Park

Kennecott Mines National Historic Landmark

Library of Congress: New Visitor Experience

National Building Museum: *Designing for Disaster*

National Museum Rt. 6 Museum

Shenandoah Battlefields National Historic District

Smithsonian Institution: Ocean Hall Conceptual Design

Valentine Richmond History Center: *This is Richmond*

Traveling Exhibition

Virginia Historical Society: *An American Turning Point: The Civil War in Virginia*

Library of Congress: *With Malice to None: The Abraham Lincoln Bicentennial Exhibit*

Visitor Center

North Carolina Division of Parks and Recreation: Merchants Millpond State Park

Raven Rock State Park

Ohio Division of Natural Resources:

Old Woman Creek State Nature Preserve

South Carolina National Heritage Corridor:

Region II: Discovery Center

Region III: Discovery Center and Retail Area

Region IV: Mobile Application

Education and Honors

Mr. Ward earned a Bachelor of Arts from Ohio State University (1992) and a Master of Arts from the University of Richmond (1996). He graduated Phi Alpha Theta and holds memberships in the American Association of Museums, the Southeastern Museums Conference, and the Virginia Association of Museums. Mr. Ward also provides pro bono consulting and design services to the Association for the Preservation of Virginia Antiquities (APVA) and the Virginia Association of Museums (VAM).



MICHAEL RADTKE

SENIOR EXHIBIT DESIGNER

Mr. Radtke brings many years of exhibit design experience to every project. His design, drafting and construction production capabilities with Creative Directors will set to the exact creation of a high quality and three-dimensional exhibit. He has experience in Mr. Radtke is a skilled user of Vectorworks and AutoCAD programs. He is responsible for the production of conceptual and working drawings for exhibit installation, project management, and the coordination of project scheduling with other departments.

Relevant Work

Employment History

1717 Design

Designer and Project Manager, August 1996 – September 2001

Projects included:

- The National Cowboy Hall of Fame
- NCAA Hall of Champions and NCAA trophy
- The Washington Monument
- Stratford Hall Plantation
- Colonial Williamsburg

Hadley Exhibits, Inc.

Designer and Project Manager, August 1993 – July 1996

Designer for design build museum and trade show exhibit firm.

Projects included:

- John F. Kennedy Presidential Library and Museum
- The Center at High Falls, Rochester, NY
- El Portal Visitor Center in the El Yunque National Rain Forest, Puerto Rico.

Select RWD Experience

Exhibition

Contemporary Art Center of Virginia:

Magna Carta and Four Foundations of Freedom

Hampton History Museum

LBJ Presidential Library and the Briscoe Center at the University of Texas at Austin:

Cronkite: Eyewitness to A Century

Library of Congress:

Churchill and the Great Republic

Exploring the Early Americas

From the Home Front and the Front Lines

New Visitor Experience

The Last Full Measure: Civil War Photographs from the Liljenquist Collection

National Park Service: Richmond National Battlefields

University of Virginia Special Collections Library:

From Out That Shadow: The Life & Legacy of Edgar Allen Poe

Flowerdew Hundred: Unearthing Virginia's History

Best Sellers: Popular Fiction in America

Valentine Richmond History Center:

War is Hell

Virginia Historical Society: *Virginians at Work*

Virginia Museum of Fine Arts: *Fabergé Revealed*

Woodrow Wilson Presidential Museum and Library:

Hinge to the 20th Century

World War I: The Doughboy War

Interpretive Signage

Civil War Interpretive Center at Historic Blenheim

Curruck Heritage Park: Whalehead Club

Maymont Foundation Nature Center

Pamplin Historical Park

Shreveport Bossler Convention and Visitors Bureau: Northwest Byway

Interpretive Signage

Master Planning

Atlanta History Center

Appomattox Court House National Park

Library of Congress: New Visitor Experience

Smithsonian Institution: Ocean Hall Conceptual Design

Valentine Richmond History Center: *This is Richmond*

Visitor Center

County of Henrico: Three Lakes Park Nature Center and Aquarium

North Carolina Dept. of Environment and Natural Resources:

Outer Banks Center for Wildlife Education

North Carolina Division of Parks and Recreation:

Merchants Millpond State Park

Raven Rock State Park

South Carolina National Heritage Corridor:

Region II: Discovery Center

Region III: Discovery Center and Retail Area

U.S. Department of Agriculture, National Forest Service:

James R. Wilkins CCC Visitors Center

West Virginia University Visitor Resource Center

Education and Honors

Mr. Radtke earned a Master of Arts in Architecture from the State University of New York at Buffalo in 1993 and a Bachelor of Science in Professional Photography from the Rochester Institute of Technology in 1983.



SARA MARTIN

RESEARCHER AND PROJECT COORDINATOR

Ms. Martin has a broad background in urban and environmental planning which includes community development, strategic community development, and economic development. These concepts are complemented by her passion for design. In addition to her work with the planning side of projects, she currently works as a researcher and project coordinator at Riggs Ward Design.

Relevant Work

Employment History

Dominion Harvest

Account Manager & Marketing Assistant, Jan – Dec 2012

Managed accounts payable, created promotional newsletters and flyers, attended regional events to educate customers about the benefits of supporting local farmers and local produce/products.

Habitat for Humanity of Charlottesville

Researcher and Team Member, Jan – May 2011 (4 months)

Part of a team that created a new marketing approach for the Habitat Re-Store.

UVA Student Council Environmental Sustainability Committee

Research and Development Task Force Leader,

Aug 2010 – Aug 2011 (1 year)

Organized and coordinated efforts within the 15-person team to improve the University sustainability programs and initiatives.

City of Charlottesville Economic Development Department

Economic Specialist Intern, May – Aug 2010 (3 months)

Completed vacancy surveys, created articles related to new businesses in the region for a monthly newsletter, interviewed business owners, and assisted the Lead Economic Specialist in a variety of tasks.

Select RWD Experience

Exhibition

Atlanta History Center

Bethlehem Steelworks Visitor Center

Black History Museum of Virginia

City of Raleigh Museum

R3 and CityLab Exhibits

Ft. Lewis Army Museum

Historic Columbia Foundation

Woodrow Wilson Family Home

Historic Jarvisburg Colored School

University of Virginia: Rotunda Project, Lower East Oval Room

Virginia Capitol Visitor Center

Interpretive Signage

National Park Service

Natchez Trace Parkway Interpretive Signage

Education and Honors

Ms. Martin earned her Bachelor of Urban and Environmental Planning Degree with a Minor in Economics from the School of Architecture at the University of Virginia. Her team marketing project for Habitat for Humanity of Charlottesville won an award from the Virginia Chapter of the American Planning Association.



CHRISTOPHER KING

INTERACTIVE MEDIA DEVELOPER

Mr. King is a highly motivated problem solver and media developer with several years of professional experience in web application development, Flash, web design, and programming. He is a focused, patient, and responsible individual that completes projects with ease and by utilizing strong written and verbal communication skills, excellent technical aptitude, rational fact-based decision making, and leadership skills.

Relevant Work

EMPLOYMENT HISTORY

Metis Creative

Lead Web Designer/Developer, July 2014 – October 2014

Managed team. Developed and designed fully responsive and mobile cross browser websites

eFedSystems Corporation

Web Developer, Researcher (Internship), Sept. 2013 – August 2014

Sharepoint Systems, C#, Web Development

Identity Management Systems, LLC

Web Software Developer, June 2013 – May 2014

Developed company website, assisted with biometric software advancements in C#

Programming/Scripting/Styling

HTML, CSS, JavaScript, JQuery, PHP, C, C++, C#, Java, JSP, Python, ActionScript 3.0, XML

Frameworks/Libraries/Specifications

jQuery, Google App Engine

Relational Databases

MySQL, MSSQL, Oracle

Development Environments/Version Control

Flash CS6, Flash Develop, Eclipse, Android Developer Studio, Visual Studio, Subversion, Git

Volunteer Experience

University of Mary Washington, Created a web based scheduling system through Agile RSASA.org, Wordpress repair

Select RWD Experience

Exhibition

Atlanta History Center

Bethlehem Steelworks Visitor Center

Black History Museum of Virginia

City of Aiken, South Carolina

City of Orangeburg, South Carolina

Historic Jarvisburg Colored School

Old Woman Creek National Estuarine Research Reserve

Patriots Point Naval and Maritime Museum

South Carolina National Heritage Corridor:

Region IV: Discovery Center Application

Valentine Richmond History Center

Virginia Tech

Woodrow Wilson Family Home

Education and Honors

Mr. King earned a Bachelor of Computer Science from the University of Mary Washington where he graduated in 2014.



MICHELLE BABYOK, ASID

EXHIBIT DESIGNER

Ms. Babyok has 12 years of design experience in interiors, graphics, and exhibits. The culmination of her liberal arts background and design acuity have given her a strong feel for the ability of content in three dimensional space. She has strong project management skills, is a strategic thinker and a problem solver.

Relevant Work

Employment History

MFM Design, Bethesda, MD

Senior Graphic Designer, 2013 – 2014

Designer of interpretive graphics for the Museum of the American Revolution project. Responsible for conceptual layouts of 3-D graphics, Sketch-Up renderings, color palettes, and typography. Also in charge of artifact layouts and displays, including outdoor elements.

Design 3, Orange, VA

Exhibit Designer, 2010 – 2013

Designer of interpretive exhibits for history museums. Recently acted as lead designer and project manager on a \$1.5 million, turn-key project for a history museum in Roanoke, VA. As part of a small team, I was also responsible for content gathering, curation, research, client presentations, SketchUp renderings, full CAD-drawn DD sets, graphic design, art direction, RFP responses, and management of fabricators, designers, interactive designers, A/V teams and other contractors.

Michelle Babyok, ASID, DC Metro Area, Charlottesville

Interior Designer, 2009 – 2010

After passing the NCIDQ (professional certification exam for interior designers) and becoming certified in Maryland, Babyok has worked on several residential and commercial projects.

Juicy Couture, New York, NY

Retail Designer, 2008

Drew plans and elevations for 20+ boutiques and outlets across the country. Planned store layouts with site conditions, local and national codes, and merchandising goals in mind. Designed exterior storefronts with moulding details. Analyzed capacities of store fixtures and calculated potential earnings.

Related Projects

Exhibition

Lancome, New York, NY

Retail Designer for 3D, CAD and fabrication

Macy's, New York, NY

Retail Designer for shop layout, fixture design and materials, winner 2007 NASFM Award

McCartan, New York, NY

Interior Designer for hospitality lighting and furniture

Alexandra Champalimaud, New York, NY

Interior Design Intern

Icon Medialab, New York, NY

Associate Project Manager of website development in medicine, e-commerce and fashion

MTV Networks, New York, NY

Website Designer for MTV News Online

Select RWD Experience

Exhibition

Atlanta History Center

Cape Fear Museum

Ft. Lewis Army Museum

Historic Brentsville Jail Permanent Exhibits

Historic Jefferson School

Education and Honors

Ms. Babyok holds a Bachelor of Arts from Smith College with a concentration in Studio Art and Art History. She earned a Master of Science in Interior Design from Pratt Institute where she participated in the Exhibit Design Intensive (EDI) Program.



MARTIN SPEER

GRAPHIC DESIGNER

Mr. Speer is a designer specializing in the creation and development of brand identities, communications and user experiences across multiple media. He has a strong background in problem solving and creative thinking, and has experience in leading, working individually and with teams successfully.

Relevant Work

EMPLOYMENT HISTORY

Carousel Designs, Rockville, VA

Senior Designer, 2013

Acclaimed, regional sign and design company, focused on the residential and commercial housing market. Responsible for overall sign design, production documents and client design relations. Ensured detail-orientated needs were met in a timely informative manner. Worked to bolster sales team capabilities through good design and a cooperative, positive attitude.

Outdoor Living Brands, Inc., Richmond, VA

Senior Designer, 2008 – 2013

Senior Graphic Designer for Outdoor Living Brands, responsible for guiding the growth of its family of outdoor concept franchise brands: Archadeck Outdoor Living, Mosquito Squad and Outdoor Lighting Perspectives. Responsible for brand identities to user experiences in all media, primary focus was to create impactful and memorable communications to generate inquiry leads from homeowners for Outdoor Living Brands products and services.

CMSS Architects, PC, Virginia Beach, VA

Senior Designer, 2004 – 2007

International Architectural Firm specializing in the holistic design of public/private projects. Supported the growth of firm through various collateral projects. Enabled the formation of the Communications Department through client branding and environmental graphic design. Responsible for support of company brand and project related materials. Responsible for client branding and environmental graphics.

Design 3, Orange, VA

Senior Designer, 1999, 2000, 2002 – 2004

Multidisciplinary design studio specializing in graphic, exhibit, environmental and web design. Servicing state-wide cultural, historic, military, commercial, financial and industrial clients. Consistently and effectively enabled this client spectrum to visually communicate ideas by informing, enlightening and explaining their specific offerings to targeted markets. Responsible for creating and co-managing numerous design projects focusing the clients' specific needs by creating engaging, informative, and cost effective design solutions.

Related Experience

The Creative Group — Virginia Beach, VA

Breviloquent — Charlottesville, VA

Select RWD Experience

Exhibition

Atlanta History Center

Hampton History Museum

National Park Service

Natchez Trace Parkway Interpretive Signage

Education and Honors

Mr. Speer received his Bachelor of Fine Arts from Ferrum College and a Master of Fine Arts from Virginia Commonwealth University where he majored in Communication Arts and Design. In 2007, Mr. Speer received the AIGA GRADE Award of Merit and the ADDY Silver Award.



NISSA LIPOWICZ

RESEARCH AND DEVELOPMENT

Nissa Lipowicz received a master's degree in museum studies from the Johns Hopkins University where she focused on exhibit evaluation and visitor studies. With an interdisciplinary background in the areas of user experience and exhibit planning, Ms. Lipowicz brings a unique perspective to exhibit development and evaluation for museums and public institutions.

Relevant Work

Employment History

Virginia Museum of Fine Arts, Richmond, VA
Graduate Intern, August 2014 – December 2014

RSA, Washington, DC
Image Specialist, May 2013 – February 2014 (Federal Contract)

Gallery 5800/Flux, Richmond, VA
Gallery Director, October 2010 – August 2013

Bust Magazine, New York, NY
Contributor, 2010

Certification

Protecting Human Research Participants for Extramural Research
National Institutes of Health, Johns Hopkins University, 2015

Projects

- Biocubes Exhibit Prototyping and Formative Evaluation, 2015
National Museum of Natural History, Smithsonian Institution
- "Skin & Bones" Mobile App Development and Evaluation, 2015
Dissertation research with Andy Petarek and Diana Marques
National Museum of Natural History, Smithsonian Institution
- Rotunda Renovation, Front end evaluation, Ivory, 2015
National Museum of Natural History, Smithsonian Institution
- "Headlines: Then & Now" Exhibit Development Evaluation, 2015
Newseum
- Oral Histories of American Artists, auditor/research, 2014
Archives of American Art, Smithsonian Institution
- Placemaking: Project for Public Spaces, Campaign Planning, 2014
Virginia Museum of Fine Arts

Select RWD Experience

Exhibition

- Atlanta History Center
- Black History Museum and Cultural Center of Virginia
- Salt River Pima-Maricopa Indian Community
- Virginia State Capitol

Education and Honors

Ms. Lipowicz holds a Master of Arts in Museum Studies from the Johns Hopkins University and a Bachelor of Fine Art in Photography and Film from Virginia Commonwealth University. In 2014, Ms. Lipowicz was recognized for her contributions to the museum studies field with the Johns Hopkins' *Future of Museums: Visionary Ideas for Visitor Engagement Seminar Scholarship*.



RON THOMSON

INTERPRETIVE PLANNER & WRITER

Ron has a varied portfolio divided between interpretive planning and production of interpretive media including writing and editing exhibit content, interpretive trail sign systems, interpretive brochures, and interpretive audio-visual programs. He has worked on interpretive projects for more than 30 units of the National Park Service. Completed jobs include more than 60 Lolly-Rollie Interpretive Plans.

Relevant Work

Employment History

Compass

Owner and Principal, 1994-Present

Produce interpretive plans and write content for interpretive media including museum exhibits

Mid-Atlantic Regional Office, National Park Service

Interpretive Specialist, 1988-1994

Provided technical assistance to parks in the region and reviewed interpretive media developed by NPS staff and contractors.

Independence National Historical Park

Interpretive Specialist, 1988-1980

Developed a variety of interpretive media for the park and supervised interpretive training.

Tuskegee Institute National Historic Site

Chief of interpretation, 1977-1980

Supervised the interpretive program and development of interpretive media for this new national park.

Independence National Historical Park

District Ranger, 1972-1977

Supervised both permanent and seasonal interpretive rangers.

Projects

Donner Memorial State Park Visitor Center, Exhibit text. In progress with installation expected in the summer of 2014.

Railtown 1897 State Historic Site, Interpretive master plan. In progress.

Anza Borrego Desert State Park, Interpretive master plan. In progress.

Underground Railroad Interpretive Center, Niagara Falls, NY, Exhibit planning and text. In progress.

Sam Rayburn Library and Museum, Exhibit planning and text. Completed in 2012.

George Rogers Clark National Historical Park, Interpretive planning. Completed in 2012.

Agate Fossil Beds National Monument, Interpretive planning. Completed in 2011.

Little Bighorn Battlefield National Monument, Interpretive planning. Completed in 2011.

Shenandoah River State Park, VA, Exhibit text; 2011

Pemberton's Headquarters, Vicksburg National Military Park, Exhibit text, Completed 2010.

Eyewitness to a Century, University of Texas/Austin, Exhibit text; Completed in 2010;

South Lawn, University of Virginia, Interpretive text; Completed 2010; St. Charles County Heritage Museum, MO, Exhibit text; 2010.

Select RWD Experience

Exhibition

Eyewitness to a Century, University of Texas/Austin, Exhibit text.

Graveyard of the Atlantic Museum, Hatteras, NC, Exhibit text.

Natchez Trace Parkway Interpretive Master Plan and exhibit text.

Sam Rayburn Library and Museum, Exhibit planning and text.

Shenandoah River State Park, VA, Exhibit text.

South Lawn, University of Virginia, Interpretive text.

St. Charles County Heritage Museum, MO, Exhibit text.

Underground Railroad Interpretive Center, Niagara Falls, NY, Exhibit planning and text.

Education and Honors

University of Virginia, 1969-1970

Thomas Jefferson Fellow in the Graduate School of Arts and Sciences

Moravian College, 1965-1969

Summa cum laude with honors in American history



MERCY QUINTOS PROCACCINI

WEST COAST PROJECT MANAGER

Ms. Procaccini is engaged in project management, inventory planning, and collections-based projects for the firm. She is currently working on collection planning and documentation for the acquisition of exhibits at the Fort Lewis Museum of Fort Lewis (MFL). Based in Seattle, she provides project management and on-site support to various U.S. clients.

Relevant Work

Employment History

Prior to joining the University of Virginia Library, Ms. Procaccini managed a traveling science exhibition for the American Psychological Association. She also worked at a variety of history museums and organizations, including Fort Ward Museum and Historic Site, The Lyceum History Museum, National Museum of American History, Stephen Decatur House, and the National Trust for Historic Preservation.

Projects

Having been involved with numerous exhibit projects over the past twenty years, Ms. Procaccini has a broad range of experience working with a team to manage project planning, schedules, resources, and multiple stakeholders effectively. Prior to her work with RWD, Ms. Procaccini directed the University of Virginia Library's exhibition program, working closely with donors, administrators, curators, conservators, preparators, designers, facilities staff, and the communications department. She was involved with the interpretive planning of the exhibits, and managed accompanying print, web, and film projects. Exhibition topics included archaeology, Native American history and culture, faculty research, popular fiction, cartography, history, book collecting, and architecture. Prior to her work at the Library, she managed a traveling science exhibition, and worked on exhibit and collections projects at a variety of museums.

American Journeys: From Columbus to Kerouac

Breaking and Making Tradition: Women at the University of Virginia

Censored: Wielding the Red Pen

Creating America's Theatre

Declaring Independence

From Out that Shadow: The Life and Legacy of Edgar Allan

Poe (in collaboration with the Ransom Center at the University of Texas at Austin)

From Village to Grounds: Architecture at the University of Virginia

Layers of the Past: Discoveries at Flowerdew Hundred

Lewis and Clark: The Maps of Exploration 1507 - 1814

Lift Every Voice: Music in American Life

On the Map

Paul Mellon's Personal Library at the University of Virginia Library

The Firebird and the Factory: Modern Russian Children's Books

The Style of Power

Virginia Visions

Select RWD Experience

Exhibition

Ft. Lewis Army Museum

University of Virginia

Dell and Meadow Creek Wayside Panels

Rotunda Visitor Center

South Lawn Project Interpretive Exhibits

Virginia Tech Visitor Center

Education and Honors

Ms. Procaccini graduated with Distinction from the University of Virginia with a Bachelor of Arts in History. She has a Master of Arts in Museum Studies from George Washington University.

PRINCIPALS/KEY PERSONNEL

Greg Fox, ASLA, LEED AP
 Vice President of Land Development

Greg Fox oversees TERRADON's Land Development Sector. Fox has been responsible for hundreds of notable commercial, educational and recreational site development projects during his 25+-year career. During his time as Land Development Department Head, TERRADON has earned Engineering Excellence Awards from the West Virginia Association of Consulting Engineers, numerous Merit Awards from the American Society of Landscape Architects, and the Gold Award from the American Council of Engineering Companies.



Relevant Project Experience

- **The Bechtel Summit National Scouting Reserve**
 Provide Site Design for the 10,600+ acre site in Fayette County, WV. Responsible for site grading, construction drawings, NPDES design and coordination for all project subconsultants for NPDES permitting with WVDEP.
- **Greater Greenbrier Sports Complex**
 Provided Master Planning and Grading Design Services for the Greater Greenbrier Sports Complex located north of Lewisburg, WV. Five phases include: Master Planning, Grading Study, Full Construction Documents, Utility Layout, Road Design, Erosion and Sediment Control.
- **Advanced Technology Centers**
 Provided site grading, erosion and sediment control and utility design for two West Virginia Higher Education Policy commission Advanced Technology Centers located in Fairmont, WV and South Charleston, WV.
- **K-12 Educational Facilities**
 Responsible for Master Planning, Site Layout and Design, Schematic Renderings, Parcel Identification, Feasibility and Cost Analysis, and construction drawings for hundreds of k-12 educational facilities throughout West Virginia. Projects include new construction as well as renovations and additions.
- **Fairmont State University**
 Responsible for Master Planning and Design of inner campus, including design of seating fountain, drainage features and landscaping.
- **Marshall University**
 Responsible for Site Design, Utility Design, Grading and Drainage for Applied Sciences Building, Student Housing, Wellness Center and Parking Garage. Provided ADA compliancy on campus buildings and site design for existing soccer field.
- **Greenbrier Valley Medical Center**
 Responsible for master planning through site/civil construction documents for the Greenbrier Valley Medical Center in Lewisburg, WV.
- **Tazewell Community Hospital**
 Responsible for master planning through site/civil construction documents for the East Addition of the Tazewell Community Hospital in Tazewell, Virginia.
- **Thomas Memorial Hospital**
 Responsible for site/civil construction documents for Thomas Memorial Hospital in South Charleston, WV.

Education

B.S. Landscape Architecture
 West Virginia University

B.A. Geography & Planning
 West Virginia University

Work Experience

2000-Present
 TERRADON Corporation

1996-2000
 Martin Boal Anthony &
 Johnson Architects

1993-1996
 Site Design

1989-1993
 EG&G Inc

1988-1989
 PSC Engineers



STATE BOARD OF LANDSCAPE ARCHITECTS

522 Ashebrooke Square, Morgantown, WV 26508

Ph: (304)594.3535 Fax: (304)594.1482

MEMORANDUM

TO: Landscape Architects Registered in the State of West Virginia
FROM: Michael Biafore, Chairman
WV State Board of Landscape Architects
DATE: September 1, 2015
RE: Transmittal of Identification Card

The West Virginia State Board of Landscape Architects is happy to advise you that your license to practice landscape architecture in the State of West Virginia has been renewed for the fiscal year July 1, 2015 to June 30, 2016.

Enclosed you will find your renewal card.

If you have any questions or need assistance, please do not hesitate to contact me at (304) 594-3535.

Enclosure



**WEST VIRGINIA STATE BOARD
OF LANDSCAPE ARCHITECTS**

This certifies that

Gregory D Fox

is registered as a

LANDSCAPE ARCHITECT

Certificate No. [REDACTED]

Expires: **6/30/16**

Licensee's Signature

Jim Nagy, PE
Senior Engineer

As a Senior Engineer at TERRADON, Jim Nagy's primary focus is on designing civil engineering projects for public and private development projects throughout West Virginia. Nagy specializes in the design of water distribution systems as well as sewage collection systems. Nagy offers decades of hands-on experience and has previously provided design engineering services for schools, commercial developments, residential developments, public utilities and more. He earned a B.S. in Civil Engineering from West Virginia University and is a Professional Engineer in the State of West Virginia.

Relevant Project Experience

- **SPCC Planning** - updated SPCCs for All Crane & Equipment Rental and Spirit Services, Inc.
- **School Projects** - Responsible for layout, design, and permitting of water and sewer lines for numerous school projects in WV. Projects entailed coordination with PSDs, municipal water and sewer departments, State and Federal regulatory agencies for design of facilities. Schools include: Blue Ridge Community and Technical College, Blue Ridge K-12, Burnsville Elementary, Flatwoods Elementary, Davis Elementary, Sutton Elementary, Little Birch Elementary, Frametown Elementary, Buffalo High School, Clay-Battelle High School, Confidence Elementary, Jefferson Elementary, East Hardy High School, Eastwood Elementary, Flinn Elementary, Geary Elementary, Gilbert High School, Greenbrier West high School, Hampshire High School, Harpers Ferry High School and 19 additional schools.
- **Commercial Developments** - Responsible for layout, design, and permitting of water and sewer lines for numerous commercial developments in WV. Projects entailed coordination with PSDs, municipal water and sewer departments, State and Federal regulatory agencies for design of facilities. Developments include: Fairmont Federal Credit Union, Allegheny Energy Union (Fairmont), First Ward (Clendenin) Apartments, Milton Crossing, Tri-State Hotel and multiple convenience store sites throughout WV.
- **Charleston Replacement Housing** - Utility design, primarily water, sewer and stormwater, and coordination of overall site activities with the project developer for multi-unit housing development. Each phase entailed the design and layout of several hundred feet of water, sewer and stormwater line, including multiple connections with the utility providers, i.e., the Charleston Sanitary Board and West Virginia American Water, and applicable permit applications. Also responsible for construction monitoring and provision of as-built drawings as required by the respective utility providers.
- **Cathcart – Devonshire Development, Scott Depot, WV** - Designed sanitary sewer and water distribution system to serve more than 900 housing units in this private development.
- **Washington Woods Subdivision, Ravenswood, WV** - Designed more than 9,000 feet of water and sewer line and a 500 gpm fire pump water booster station to serve a 150 lot subdivision.
- **Sawmill Village, Snowshoe, WV** - Designed approximately 2,800 feet of 8" water line and sanitary facilities to serve the Sawmill Village development project in Snowshoe, WV.

**Education**

B.S. Civil Engineering
West Virginia University

Work Experience

TERRADON Corporation
2007-Present

WV American Water
1991-2007

AWW SC
1984-1991

WV DNR
1982-1984

VTN, Inc. Consulting
Engineers
1978-1982

J.H. Milam Consulting
Engineers
1977-1978

WV DNR
1976-1977

WV Department of
Highways
1975-1976

Registration

Professional Engineer: WV



- **Cabell County Water Main Extension Project** - Worked on design and layout of approximately 46,000 feet of water main for the Salt Rock PSD/WVAW. Responsible for bidding, contract award, and project management.
- **Putnam County Water Main Extensions** - Worked on design and layout of approximately 63,000 feet of water main and a booster pumping station for the Putnam County Commission/WVAW. Responsible for bidding, contract award, and project management.
- **Manila Ridge Water Main Extension Project** - Worked on design and layout of approximately 38,000 feet of water main for the Putnam County Commission/WVAW. Project has not received funding yet. However, will be responsible for bidding, contract award, and project management.

Your **ACTIVE PE** renewal fee has been received...

Your ACTIVE PE renewal fee has been received. Your pocket card indicating you are entitled to practice engineering in West Virginia until the noted expiration date may be detached and used unless invalidated as a result of Board audit of your renewal form or formal disciplinary action.

IMPORTANT REMINDERS:

1. Please include your WV ACTIVE PE license number on any correspondence to this office.
2. To use this license as a pocket card, please cut along the dotted line and laminate if desired.
3. You are required to immediately notify the Board, in writing, of the following: loss or theft of license or seal, any name change, any address change, or any employment change.


West Virginia State Board of Registration for Professional Engineers

300 Capitol Street, Suite 910
Charleston, West Virginia 25301
304-558-3554 Phone
800-324-6170 Toll Free
www.wvpebd.org

THIS IS ONE FORM OF YOUR RENEWAL RECEIPT

PLEASE SAVE THIS FOR YOUR RECORDS

Date of Renewal: June 2, 2015
Amount Paid: \$40.00



**West Virginia State Board of Registration
for Professional Engineers**

JAMES A. NAGY
WV P [REDACTED]

This is to certify that the above named PROFESSIONAL ENGINEER has met the requirements of the law, is duly registered and is entitled to practice engineering in the State of West Virginia.

EXPIRES December 31, 2016

JAMES A. NAGY
[REDACTED]

Robert Thaw, PS

VP - Survey and Mapping

With more than 30 years of experience in a wide range of surveying projects, Robert Thaw serves as head of TERRADON's Survey and Mapping department. He organizes and supervises survey crews, reviews project plans, and creates base mapping for various projects including noise barriers, interchanges, connectors, bypasses, sidewalks, bike paths, and bridges. Thaw oversees all TERRADON survey activities, including: preparation of Right-Of-Way plans; the development of GPS static networks for aerial mapping in the design of roadways; identification of existing utilities and property lines; base image development and control placement for construction projects; and drafting of legal descriptions for ROW parcels.

Thaw has been directly responsible for survey and mapping services, including Right-Of-Way, on a number of notable transportation projects including:

- **Laurel Fork Campground Bridge**
TERRADON provided surveying and design engineering on a USDA Forest Service project in Randolph County, West Virginia. Surveyors led by Thaw provided Right-Of-Way services, including courthouse research, construction easements, and location of alignments. Additionally, provided topographic mapping, project control for construction, hydraulic cross sections, and stream profiles.
- **Sedalia Arch Bridge**
Thaw oversaw survey services for the replacement of an existing concrete arch bridge with a 72' single span bridge. The bridge consisted of adjacent concrete prestressed box beams with a cast-in-place concrete deck. Survey services consisted of a topographic survey, ROW plans, construction control, and legal description creation. Roadway design consisted of new bridge approaches and a designed detour. Drainage, maintenance of traffic, and right-of-way plans were included in the scope of work.
- **Sleeth's Run Bridge**
Thaw provided Right-Of-Way services during the design for the replacement of an existing truss bridge in Lewis County, WV. The project included the design of a new 200' structure and approaches. Survey services consisted of a topographic survey, ROW plans, construction control, and legal description creation.
- **Grade Road**
Thaw oversaw Right-Of-Way services for the new construction of two lanes adjacent to an existing two-lane roadway. Right-Of-Way services included Right-Of-Way Plans, legal descriptions, and questionnaires for take parcels.
- **St. Mary's Bypass**
Working for the WVDOT, Thaw led transportation survey services for the relocation of WV 16 in Pleasants County, from Pleasants County Route 18 to WV 2 in Saint Mary's, West Virginia for approximately two miles of highway. The project included topographic mapping, survey control mapping, right-of-way and utility cost estimates, and inventories.



Education

A.S., Survey Technology, 1981,
West Virginia University Institute
of Technology

B.S., Surveying, 1985,
West Virginia University Institute
of Technology

Work Experience

TERRADON Corporation
1994-Present

Bowman Land Surveying
1992-1994

Dunn Engineers
1990-1992

Kelley Gidley Blair and Wolf
1988-1990

Pierson & Whitman
Architects and Engineers
1984-1986

Registrations

Professional Surveyor,
West Virginia

Peter J. Williams, ASLA
Landscape Architect

"Pete" Williams is a graduate of West Virginia University with a Bachelor of Science in Landscape Architecture. His responsibilities include landscape architectural design, grading and storm water drainage design, the design of pedestrian circulation systems and related amenities, roadway design, site planning, and quality control. Mr. Williams is registered as a professional Landscape Architect in West Virginia with more than 15 years of experience at TERRADON and more than 24 years of overall experience.

Relevant Project Experience

- **Fire Stations, Medical, First Responder, Public Facilities**
Yeager Airport Fire/Crash/Rescue Station
Fairmont Public Safety Building & Fire Safety Station
South Charleston Fire Station
Greenbrier Valley Medical Center
A New Marshall County Public Safety Annex
- **Higher Education**
Marshall University Student Recreation Center
Marshall University Student Housing
Fairmont State Inner Campus Design
- **K-12 Schools, Athletic Fields and Other Facilities**
A New Marsh Fork Elementary School
A New Shady Spring Middle School
Hurricane High School Sports Fields, Additions & Renovations
Lakeside Elementary School Additions & Renovations
Eastwood Elementary School Additions & Renovations
Flinn Elementary School Additions & Renovations
Musselman High School Additions & Renovations
Martinsburg North Middle School Additions & Renovations
A New Gerrardstown Middle School
Jefferson Elementary School Additions & Renovations
A New Blue Ridge Primary School
Winfield Elementary School Additions & Renovations
A New Buffalo High School
A New Confidence Elementary School
Greenbrier West High School Additions & Renovations
A New Lewisburg Elementary School
A New Rainelle Elementary School
Eastern Greenbrier Junior High School Additions & Renovations
Mason Dixon Elementary School Additions & Renovations
Poca High School Additions & Renovations
A New Winfield Middle School
A New Poca Elementary / Middle School



Education

B.S. Landscape
Architecture
West Virginia University

Work Experience

2000 – Present
TERRADON Corporation

1992-2000

Chapman Technical Group
Registration

Affiliations

American Society of Landscape
Architects

West Virginia Chapter of
American Society of Landscape
Architects

- A New Mingo Central High School & Athletic Complex
- A New University High School & Athletic Complex
- A New Mountain View Elementary School
- A New Mountain Ridge Intermediate School
- Morgantown High School Additions & Renovations
- A New Pikeview Middle School
- Moorefield High School Additions & Renovations
- Burch PreK-8 School Additions & Renovations
- A New Leading Creek Elementary School
- John Marshall High School Additions & Renovations
- A New Gilmer County Elementary School
- A New Suncrest Elementary School
- East Hardy High School Additions & Renovations
- A New Arnoldsburg Elementary School
- Berkeley Springs High School Additions & Renovations
- A New South Preston PK-8 School
- Fort Gay K-8 School
- Dingess Elementary School
- A New Leading Creek Elementary School
- Jefferson County Bus Maintenance Facilities
- Chapmanville High School Field Turf Football Field
- Logan High School Field Turf Football Field
- Man High School Field Turf Football Field

- **Numerous Industrial, Commercial, Parks and Recreation Facilities**

- Analabs Office Building
- A New Towne Place Suites Hotel
- A New Hampton Inn Hotel
- A New Fairfield Inn & Suites Hotel
- Greater Huntington Park and Recreation District
- Grand Vue Park High Adventure Park & Treehouse Cabins
- Beckley YMCA Field Turf Soccer Field

Shawn Gray, ASLA

Site Designer and Land Planner

Shawn Gray is an experienced Site Designer and Land Planner who serves as an integral part of the TERRADON design team. He offers experience on many of TERRADON's highest profile projects, focusing on large scale site development and parks and recreation projects. Gray also provides site design and landscape architecture services for K-12 and Higher Education projects. He is responsible for developing site, grading, landscape and utility plans, site detailing and erosion sediment control plans and permitting.

Relevant Project Experience

- **Greater Greenbrier Sports Complex Master Plan**
Currently providing 5-Phased, Master Planning and Grading Design Services for the Greater Greenbrier Sports Complex located north of Lewisburg, WV.
- **Valley Park Master Planning & Expansion**
Served as a Site Designer for the expanding Valley Park in Hurricane, WV. The project included planning for athletic fields, multiple parking lots, access roads and greenspace, but also incorporated a walking trail that ties into existing park trails. The plan was produced in coordination with the WVDOT to determine roadway/walkway ingress/egress and designed in accordance with local, state and federal regulations.
- **Volcano Island Master Planning**
Provided land planning and design engineering, utility location and mapping services for the properties. The master planning provided vision for Volcano Island Water Park, allowing the City of Fairmont efficient and value-based use of the former environmentally concerned site.
- **Scott-Teays, Sheetz**
Provided site design services for Sheetz Service Centers at Scott Depot and Green Acres, WV. The projects consisted of site layout and design, utility design, hardscapes and landscape architecture.
- **Pioneer Federal Credit Union**
Provided site design services for Pioneer Federal Credit Union in Hurricane, WV.
- **The Bechtel Summit National Scouting Reserve**
Provided Initial Site Selection/Conceptual modeling designs, site planning/grading and Erosion and Sediment Control services for the 12,000+ acre site in Fayette County, WV.
- **Palatine Park Master Planning**
Provided master Planning Services for the City of Fairmont for the redevelopment of Palatine Park on the east side of the Monongahela River adjacent to downtown Fairmont, WV. The Master Plan featured new parking areas, walking trails, a vista overlook, a picnic gazebo and retail space.
- **Westmoreland Trail System Master Planning**
Provided site design services for a trail connector designed on the top of an earthen flood levy to move through urban areas.
- **Harveytown Park & Connector Master Planning**
Provided 3-Phase Master Planning for a heavily used section of trail.
- **Southridge Center Master Site Planning**
Provided master planning and site civil engineering for several areas of Southridge Center in South Charleston, WV.



Education

B.S. Landscape Architecture
West Virginia University

Work Experience

TERRADON Corporation
2005-Present

Organizations

American Society of
Landscape Architects



Allegheny Design Services

Consulting Engineers

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

Education:

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

Professional Registrations:

Year first registered: 1984

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

Professional Memberships:

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

Professional Experience:

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

Experience Record:

Allegheny Design Services, LLC, President
R.M. Gensert and Associates, Vice President
WVU, Assoc. Director of Planning, Design & Construction
Simpson Engineering, Owner
CECO Buildings Division, Senior Structural Engineer
Rockwell International, Facility Structural Engineer
Bellard Ladner & Assoc., Staff Structural Engineer
PPG Industries, Facility Structural Engineer

May 2002 to Present
August 1998 to May 2002
August 1988 to August 1998
August 1988 to August 1998
April 1985 to August 1988
March 1982 to April 1985
Sept. 1981 to March 1982
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



MICHAEL W. HOWELL, PE, SE, MBA
SENIOR STRUCTURAL ENGINEER
DIRECTOR SPORTS & RECREATION



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 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 and Nebraska

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



West Virginia State Board of Registration
for Professional Engineers

DAVID R. SIMPSON
WV [REDACTED]

This is to certify that the above named PROFESSIONAL ENGINEER has met the requirements of the law, is duly registered and is entitled to practice engineering in the State of West Virginia

EXPIRES December 31, 2016



West Virginia State Board of Registration
for Professional Engineers

JASON D. JOBINSON
WV [REDACTED]

This is to certify that the above named PROFESSIONAL ENGINEER has met the requirements of the law, is duly registered and is entitled to practice engineering in the State of West Virginia

EXPIRES December 31, 2016



West Virginia State Board of Registration
for Professional Engineers

MICHAEL W. HOWELL
WV [REDACTED]

This is to certify that the above named PROFESSIONAL ENGINEER has met the requirements of the law, is duly registered and is entitled to practice engineering in the State of West Virginia

EXPIRES December 31, 2016



Education:

West Virginia Institute of Technology - B.S. Electrical Engineering

Professional Registrations:

Professional Engineer, West Virginia, Ohio, Pennsylvania and Maryland
LEED Accredited Professional

Professional Memberships:

National Society of Professional Engineers
West Virginia Society of Professional Engineers
American Institute of Architects – WV Chapter
U.S. Green Building Council

Continuing Education:

2014 Commercial Buildings Energy Code Workshop—ASHRAE 90.1—2007
2013 Lightfair International, Philadelphia, PA

Professional Experience:

Responsible for project management and electrical design at Allegheny Design Services. Experience includes over 20 years in electrical design and project management for industrial, commercial, residential, institutional, educational, and recreational facilities. Building system design includes lighting, site lighting, power distribution, communications, surveillance, access control, and fire protection. Past accomplishments include design and construction administration of health care, schools, municipal, sports, commercial and retail facilities.

Experience Record:

Allegheny Design Services, LLC, MEP Project Manager	June 2009 to Present
MSES Consultants, Project Electrical Engineer	August 1990 to June 2009
Triad Engineering Consultants, Staff Electrical Engineer	May 1988 to August 1990
Duke Power, Design Engineer	August 1985 to May 1988

Project Experience Includes:

Experience includes estimating, design, project management, coordination, and project engineering for construction projects:

Parish Center for Immaculate Conception Church, Clarksburg, WV
Mountaineer Medical Office Building, Bridgeport, WV
WVU Visitor's Resource Center, Morgantown, WV
Upshur County 911 Center, Buckhannon, WV
Morgantown Event Center, Morgantown, WV
WVU Percival Hall Chiller Replacement, Morgantown, WV
Mylan Pharmaceuticals, Greenbag Road Facility, Morgantown, WV
Bank of Gassaway, Flatwoods, WV
Veterans Nursing Facility, Clarksburg, WV
Harrison Co. 4-H & Recreation Center, Clarksburg, WV
Robert L. Bland Middle School Renovation, Weston, WV
Stonewall Jackson Resort Lodge, Stonewall Jackson Lake, WV
Ripley Municipal Building, Ripley, WV
Wheeling Jesuit Science and Technology Building, Wheeling, WV
VAMC Primary Care Renovation, Clarksburg, WV
National Guard Hangar, Harrison Marion Regional Airport, Bridgeport, WV
Fairmont State University Athletic Field Lighting, Fairmont, WV
Harrison Marion Regional Airport Runway Extension, Bridgeport, WV
Various school renovations and additions
Streetscape projects in Clarksburg, Bridgeport, Weston, Morgantown, and WVU



Education:

West Virginia Institute of Technology – B.S. Mechanical Engineering

Professional Registrations:

Professional Engineer, West Virginia, Pennsylvania, Ohio, Maryland and Virginia.
 LEED AP BD+C Professional Accreditation
 NCEES Record Certificate

Professional Memberships:

American Society of Heating, Refrigerating and Air-Conditioning Engineers
 - Secretary Mountaineer Chapter
 - Student Activities Chair Mountaineer Chapter
 U.S Green Building Council
 National Fire Protection Association
 - Architects Engineers and Building Officials Chapter Member

Continuing Education:

2009 ASME HVAC Systems: Sizing and Design - April 27-29 - Orlando, FL
 2013 Commercial Buildings Energy Code Workshop - ASHRAE 90.1 - 2007 - West Virginia University
 2013 Mitsubishi Diamond Designer Seminar 1 - October 31 - Charleston, WV

Professional Experience:

Responsible for HVAC & plumbing design at Allegheny Design Services. Experience includes mechanical design and project management for industrial, commercial, institutional, education, and recreational facilities. Building system designs include packaged gas heating / dx cooling, split systems, air distribution systems, boiler & chiller systems, VAV & VVT zone control, indoor air quality ventilation and server room cooling. Plumbing systems include sanitary, domestic water, fuel gas, and storm drainage. Implemented sustainable building design concepts, and provided construction administration to achieve LEED certification for new construction projects.

Experience Record:

Allegheny Design Services, LLC, Senior Mechanical Engineer	June 2009 - Present
March-Westin Company, Project Manager	August 2006 - June 2009
Contracting Engineering Consultants, Detailer	May 2006 - August 2006
Special Metals, Corrosion Lab Technician	May 2005 - January 2006
Oasis Landscaping, Landscaper	May 2004 - September 2004
GC Services, Account Representative/Team Leader	May 2002 - October 2003

Project Experience Includes:

Experience includes estimating, design, project management, coordination, and project engineering for construction projects:

- Beitzel / Pillar Innovations Office Building, Morgantown, WV
- GSA Charleston LEED Administration, Charleston, WV
- Jerry Dove Medical Office Building, Bridgeport, WV
- Percival Hall Chiller & Cooling Tower Replacement, Morgantown, WV
- Thrasher Engineering Office Building, Bridgeport, WV
- RL Bland Middle School Field House Renovation, Lewis, WV
- South Ridge Church, Fairmont, WV
- Steptoe and Johnson Office Building, Clarksburg, WV
- Upshur County Communication Center, Buckhannon, WV
- WVU Alumni Center, Morgantown, WV
- WVU Biomedical Research Facility, Morgantown, WV
- WVU Milan Puskar Locker Room Renovations, Morgantown, WV
- WVU Office Fitout at Marina Tower, Morgantown, WV
- WVU Creative Arts Center Rehearsal Hall, Morgantown, WV

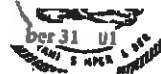


**West Virginia State Board of Registration
for Professional Eng**

GARY M. CH
WV [REDACTED] 60

This is to certify that the above named **PROFESSM**
requirements of the law, is duly registered and is en
in the State of West Virginia.

EXPIRE L



**Virginia State Board of Registration
for Professional Engineers**

DAVID A. COTTON JR
WV [REDACTED]

This is to certify that the above named **PROFESSIONAL ENGINEER** has met the
requirements of the law, is duly registered and is entitled to practice engineering
in the State of West Virginia

EXPIRES December 31, 2016



Riggs Ward Design - Exhibition Design



FIRM PROFILE

Riggs Ward Design (RWD) is an award-winning studio located in Richmond, Virginia. Our team provides exhibition and graphic design, strategic master planning, research, content analysis, and storyline development for established, new, and emerging museums, visitor centers, and other similar cultural institutions.

RWD's services also include exhibit casework, retail environments, indoor and outdoor interpretive experiences, interactive and multimedia presentations, as well as brochures, catalogs, and fundraising materials.

Our unique range of services combined with our staff of established and well-respected professionals will provide your institution with a single source for all of its design needs. RWD is committed to giving our clients the highest quality creative product and service available, while honoring a commitment to the art of design.

SELECT CLIENT LIST

American Library Association	North Carolina Division of Parks & Recreation
Black History Museum & Cultural Center	North Carolina State University
Blenheim House and Visitor Center	Outer Banks Center for Wildlife Education
Cathedral of the Sacred Heart	Pamplin Historic Park
City of Durham, North Carolina	Pemberton Historic Park
City of Fairfax Museum and Visitor Center	Richmond Historic Riverfront Foundation
City of Greenwood, South Carolina	Science Museum of Virginia
City of Greensboro Parks & Recreation Department	Shenandoah Valley Battlefields Foundation
City of Hampton, Virginia	Smithfield Schoolhouse
City of North Myrtle Beach	Smithsonian Institution
Contemporary Art Center of Virginia	South Carolina Department of Parks, Recreation & Tourism
Council for America's First Freedom	Steamboat Era Museum
County of Henrico, Virginia	University of Texas
Currituck Heritage Park	University of Virginia
Danville Science Center	U.S. Army Center of Military History
Historic Christ Church	Valentine Richmond History Center
Historic Jarvisburg Colored School	Virginia Association of Museums
Library of Congress	Virginia Center for Architecture
Library of Virginia	Virginia Historical Society
National Bean Market Museum	Virginia Tech
National Library of Medicine	West Virginia University
National Park Service	Woodrow Wilson Birthplace
North Carolina Aquariums	



riggs ward



Terradon Corporation - Civil



QUALIFICATIONS

CORPORATE OVERVIEW

TERRADON Corporation offers a multi-faceted approach to design engineering and consulting services. For more than 25 years TERRADON staff has provided a wealth of engineering solutions blanketing the Ohio Valley and the Appalachian Region with successful projects. The company built its reputation on expert personnel and quality, time-sensitive service. Those same founding principles hold true today.

Staff includes engineers, landscape architects, surveyors, planners, environmental scientists, designers, technicians and LEED Accredited Professionals.

The company maintains approximately 50 leading-edge staff in four locations: Poca, WV; Lewisburg, WV; Charlton Heights, WV; and Ripley, WV. TERRADON'S departments work cohesively to provide turn-key solutions that strive to exceed client expectations.

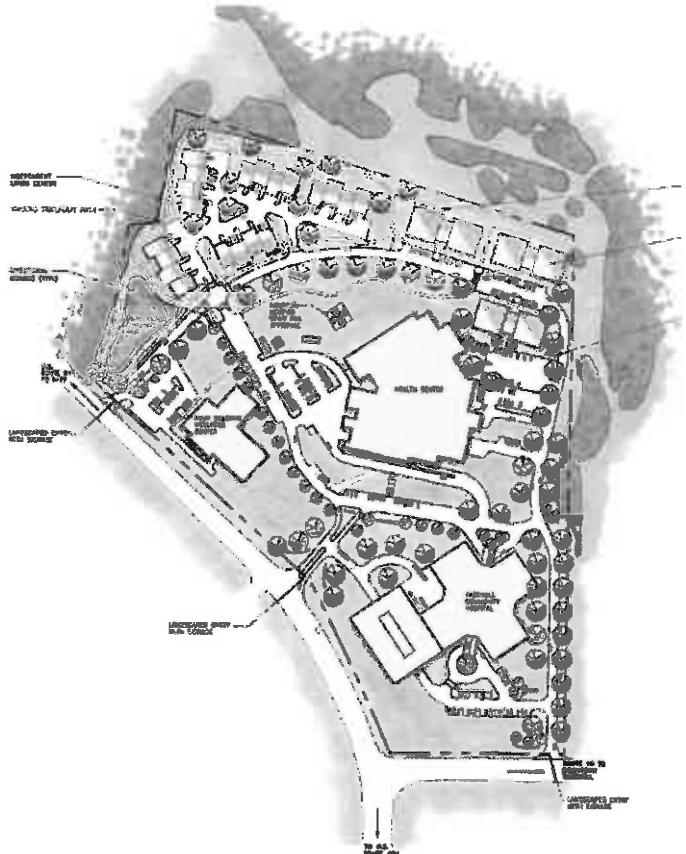
ABOUT TERRADON

The family-owned business has built a strong reputation by providing flexible, cost effective design solutions and maintaining the highest level of customer service. TERRADON is particularly suited to design engineering within the mountainous areas of the Ohio Valley and Appalachian Regions. The firm has been recognized through numerous awards from professional organizations and agencies including the several State Divisions of Highways, Departments of Environmental Protection and the American Institute of Architects state chapters.

TERRADON's corporate culture promotes innovation and progressive thinking. Project leaders strive to sustain customers through a wide-range of engineering offerings. TERRADON employees understand the purpose behind their services and work to cultivate lasting relationships with clients through honest, hard work.

SERVICE OFFERINGS

- Land Planning and Site Design
- Civil Engineering
- Environmental
- Geotechnical Engineering
- Surveying and Mapping
- Water/Wastewater
- Transportation Engineering
- Structural Engineering
- Construction Oversight and Monitoring
- Materials Testing





TERRADON Land Development Services Overview

Land Development covers a broad swath of TERRADON's service offerings and sees a large percentage of its annual revenue from repeat clients or referrals. The group is composed mainly of Landscape Architects and CAD designers who frequently team with every other department within the company.

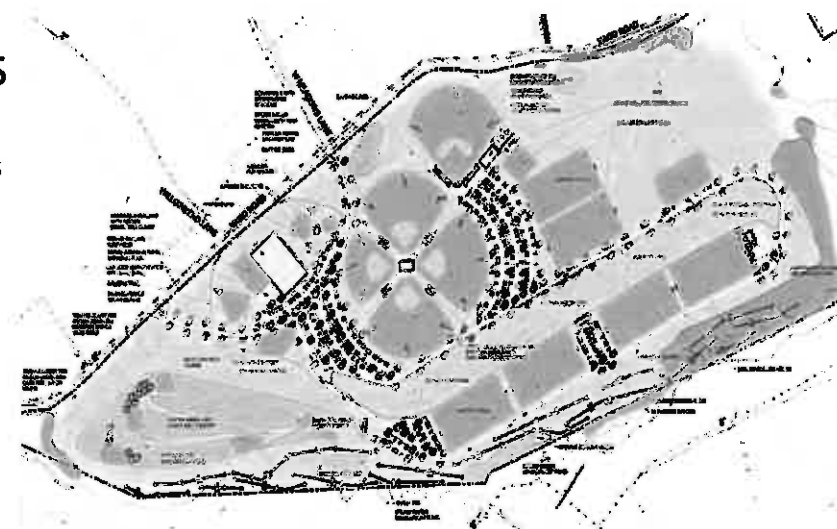
TERRADON's Land Development department collaborates with public and private entities and has a strong presence in the recreation, public/civil, educational and commercial development sectors. TERRADON is recognized as a leader in providing site design and land planning services. The firm's professional engineers work closely with the client from the project's initial phase through a schematic design, construction documents and project delivery. TERRADON's Landscape Development Group remains on the forefront of sustainable design, providing LEED Accredited Professionals to clients. Projects utilizing sustainable design best practices aid clients in significantly reducing energy costs on projects.

TERRADON's Land Development Group works in a variety of markets including: Parks/Recreation, Commercial/Industrial, Civic/Public, K-12 Education, Higher Education and Medical.

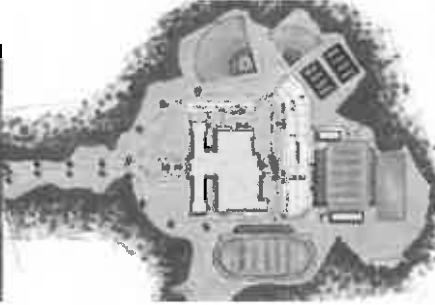
Projects include: Master planning, recreational planning, funding agencies assistance, economic development planning, surveying, engineering, architecture, historical preservation construction administration and inspection.

LAND DEVELOPMENT SERVICES

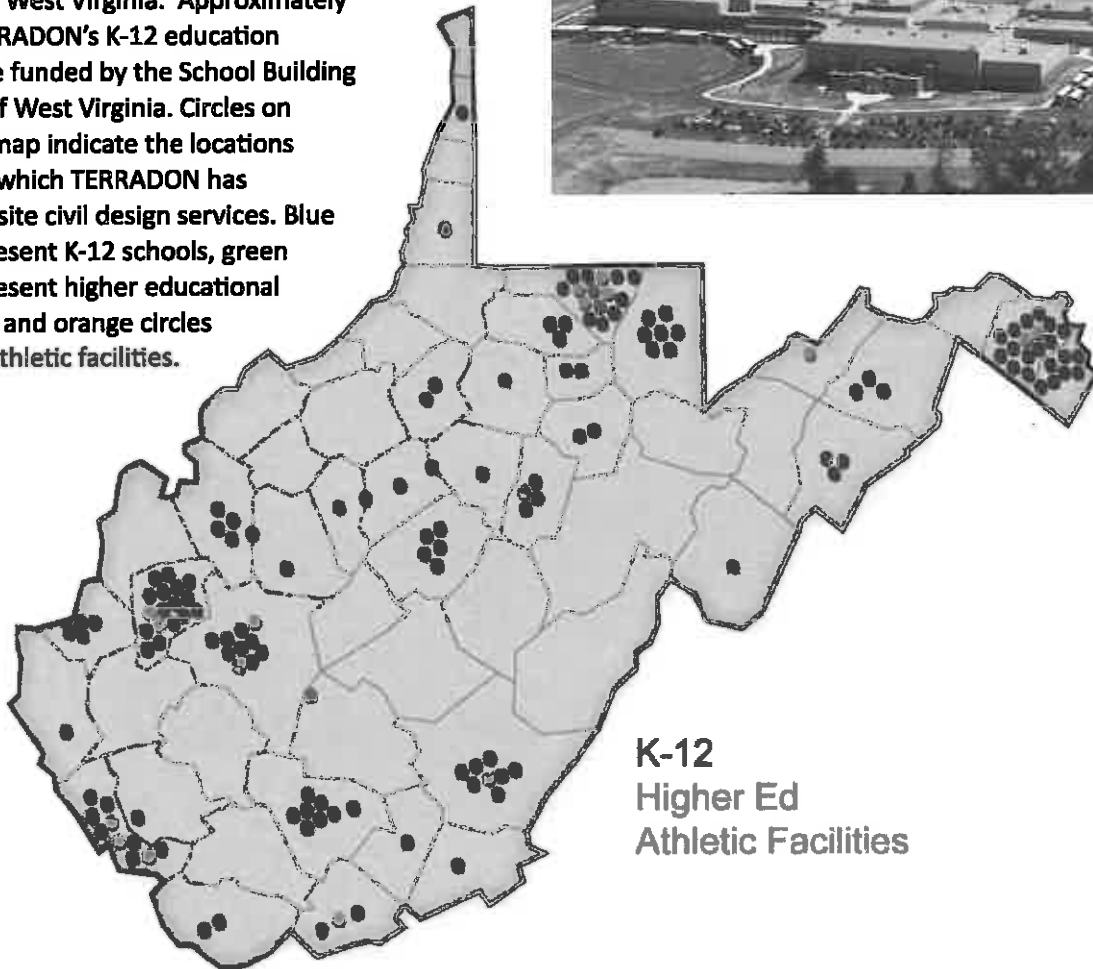
- Master Planning
- Presentation Drawings/Renderings
- Site Feasibility Studies
- Schematic Design
- Layout Plans
- Grading Plans
- Stormwater Management Plans
- Erosion Control Plans
- Planting Plans
- Construction Observation



TERRADON Educational Facilities Overview



TERRADON has completed site design work for numerous educational facilities throughout West Virginia. Approximately 90% of TERRADON's K-12 education projects are funded by the School Building Authority of West Virginia. Circles on the above map indicate the locations of sites for which TERRADON has completed site civil design services. Blue circles represent K-12 schools, green circles represent higher educational institutions and orange circles represent athletic facilities.



TECHNICAL EXPERTISE - KEY PERSONNEL

Greg Fox, ASLA, LEED AP **Planner and Primary Point of Contact**

Greg Fox has overseen the Land Development Department at TERRADON since its inception in 2000. He offers more than 26 years of industry experience, providing design services to a variety of markets. During his tenure, the Land Development Group has completed more than one hundred K-12 Educational projects and dozens of Higher Education projects.

Under his guidance, the group has been the recipient of Engineering Excellence awards from the West Virginia Association of Consulting Engineers, and the Gold Award for Engineering Excellence from the American Council of Engineering Companies. Additionally, the Land Development Group has been recognized numerous times for Merit Awards by the West Virginia Chapter of American Society of Landscape Architects. Fox is a registered Landscape Architect in West Virginia, Ohio, North Carolina, South Carolina, Pennsylvania and Virginia. He is an active member of the American Society of Landscape Architects. Fox received degrees in Landscape Architecture and Planning from West Virginia University.

Jim Nagy, PE **Infrastructure**

Nagy performs Civil Engineering related to water and waste water projects at TERRADON. He specializes in the design of water treatment and distribution systems. He has more than 25 years of on-hand experience providing engineering for the largest private water company in West Virginia. He earned a B.S. in Civil Engineering from West Virginia University. His primary focus is on management of water and wastewater projects. He also performs design work related to water distribution systems and sewage collection systems.

Shawn Gray, ASLA **Landscape Architect**

Shawn Gray is an experienced Site Designer and Land Planner who serves as an integral part of the TERRADON design team. He offers experience on many of TERRADON's highest profile projects, focusing on large scale site development and parks and recreation projects. Gray also provides site design and landscape architecture services for K-12 and Higher Education projects. He is responsible for developing site, grading, landscape and utility plans, site detailing and erosion sediment control plans and permitting.

Peter J. Williams, ASLA **Landscape Architect**

"Pete" Williams is a graduate of West Virginia University with a Bachelor of Science in Landscape Architecture. His responsibilities include landscape architectural design, grading and storm water drainage design, the design of pedestrian circulation systems and related amenities, roadway design, site planning, and quality control. Mr. Williams is registered as a professional Landscape Architect in West Virginia with more than 13 years of experience at TERRADON and more than 22 years of overall experience.

Robert Thaw, PS **Survey and Mapping**

Robert Thaw, Vice President of Survey and Mapping, oversees all TERRADON Survey services. TERRADON's survey group serves a diverse range of projects in support of seven TERRADON service groups in addition to managing survey-specific clients. Thaw manages a staff of Professional Surveyors and Computer Aided Drafting (CAD) designers who provide mapping, construction layout, ALTA survey, topographic survey and boundary survey services. Thaw's leadership has been instrumental in TERRADON's prioritization of the use of modern technology, ensuring clients the most efficient and accurate results. Additionally, he is responsible for in-house design of commercial property sites, parking and utility easements, and review of project plans and base mapping creation. Thaw's group also provides as-built surveys, utility identification surveys and deformation monitoring of design features such as retaining walls and dams.

RELEVANT EXPERIENCE

Summit Bechtel National Scout Reserve Master Plan

From 2008 to July 2013, TERRADON provided a variety of services for the development of the Summit Bechtel National Scout Reserve near Mt. Hope, Fayette County, WV. In fact, TERRADON worked with local entities on the initial site selection and presentations to the Boy Scouts of America, which landed this massive project in Mt. Hope.

The Summit is a 10,600+ acre outdoor adventure center near Mt. Hope, WV next to the New River Gorge National Park. The world-class facility serves as a venue for the Boy Scouts of America's fourth High Adventure Base, the permanent home to the National Jamboree, a summer camp and National Center for Scouting Excellence leadership center - all on the same contiguous property.

Services for the 10,600+ Acre site included:

- Initial Site Selection/Conceptual Designs
- Site Planning/Grading
- Erosion and Sediment Control
- AML
- Survey/Mapping
- All Environmental Permitting
- Geotechnical Engineering
- Materials Testing and Construction Monitoring
- Utility Design
- 60+ miles of underground utilities
- 550,000 tons of aggregate produced by on-site rock crushing 600 acres of clearing, grubbing and rough grade operations
- 3 million cubic yards of excavation
- 600 acres of fine grading and revegetation
- 28 miles of drainage swales, including erosion and sediment control
- 14 miles of new roads (grade and drain)
- 4 earthen dams
- 80,000 seat lawn amphitheater
- On site sanitary sewer system

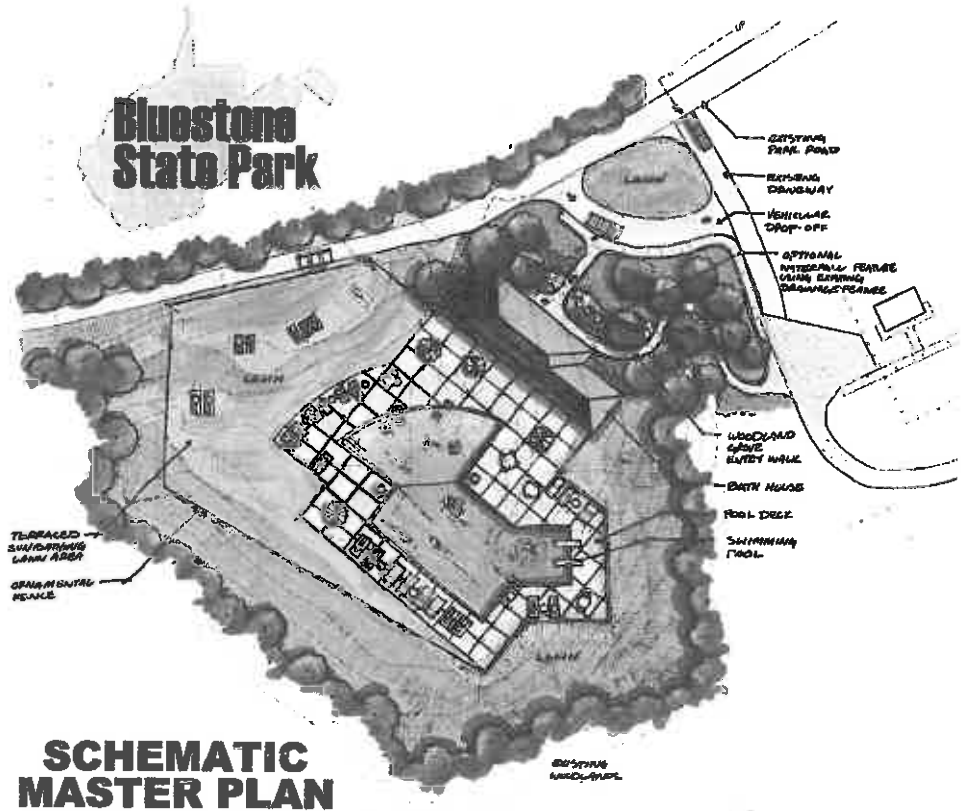


PRIOR EXPERIENCE - Parks and Recreation

Bluestone State Park Master Planning

TERRADON was responsible for the development of a swimming pool replacement for existing pools at Bluestone State Park. The existing pool was located within the 100-year flood plain and subject to flooding.

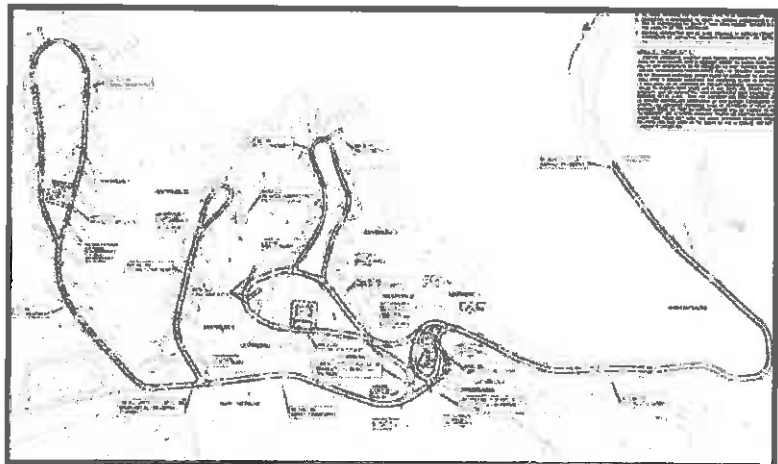
TERRADON proposed a new pool located above the 100-year flood plain while incorporating many unique and creative design features for Bluestone State Park guests and the surrounding community.



SCHEMATIC MASTER PLAN

Little Beaver State Park Design

TERRADON was responsible for the design of a campground expansion that doubled the number of existing full-service RV spaces, a new bathhouse and a trail system to the bathhouse. TERRADON was also responsible for preparation of plans and specifications for a septic tank effluent gravity (STEG) system at the park. DNR Parks and Recreation had started the project using force account method of construction, but was unable to complete the project. Terradon designed the project to utilize materials already purchased and delivered to the site. The project consisted of septic tanks, one (1) grinder sewage pumping station, and small diameter gravity sewer (SDGS) with connection to the local PSD for treatment.

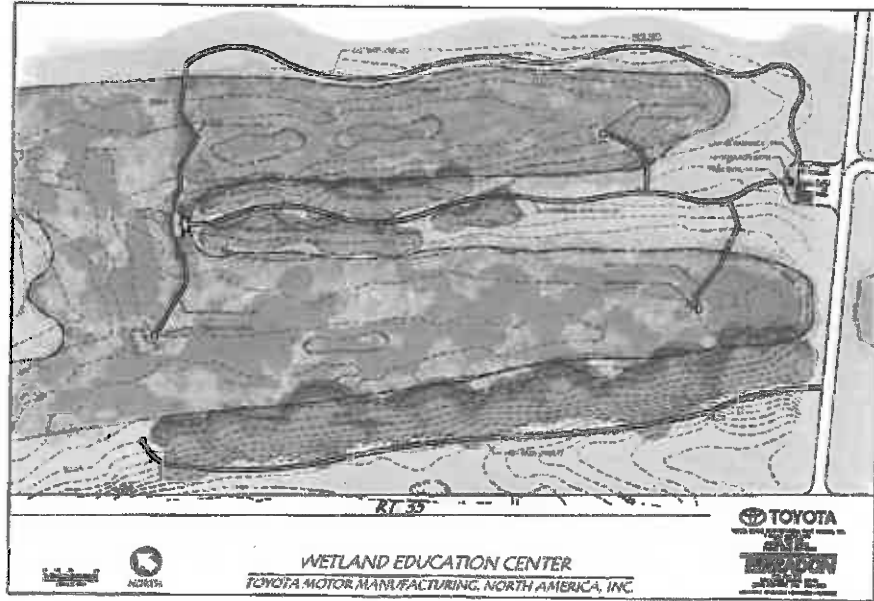


RELEVANT EXPERIENCE

Toyota Wetland Education Center

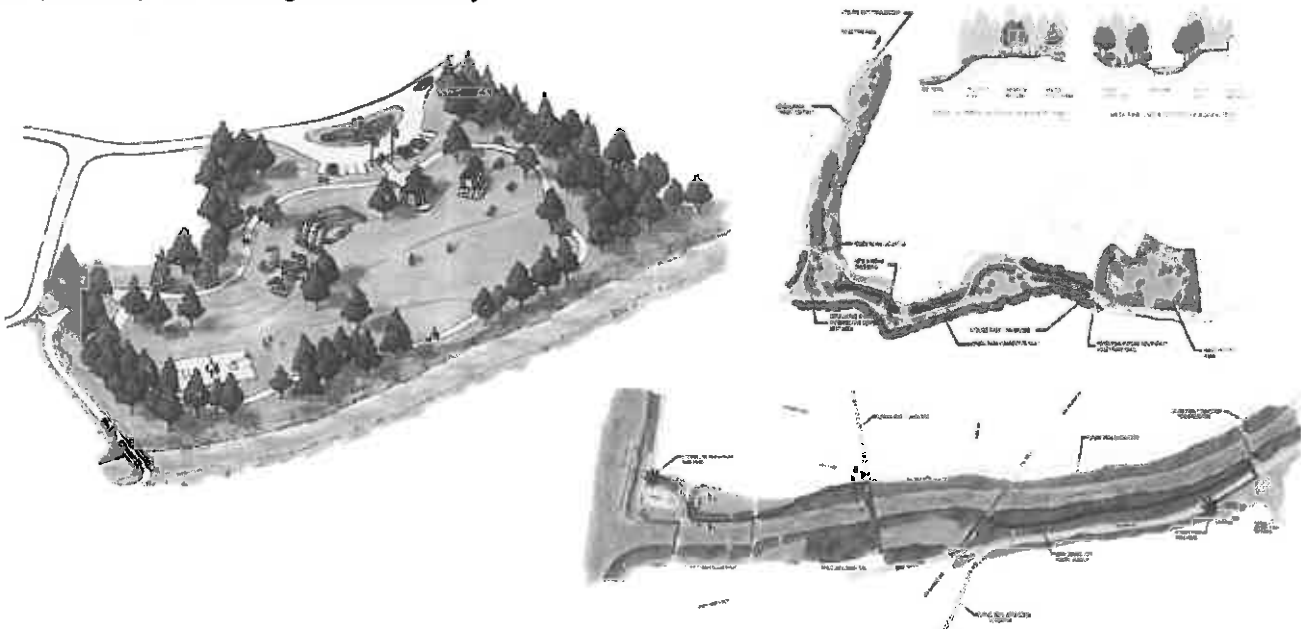
TERRADON Corporation provided Master Planning and site civil design services, followed by construction drawings, for the Toyota Wetland Education Center near Buffalo, WV.

Notable elements incorporated parking spaces, information kiosks, crushed gravel trails, elevated boardwalks and observation decks into this unique environmental habitat and wildlife refuge.



Harveytown Park & Connector Master Planning

TERRADON Corporation was responsible for trail design of a connector from Harveytown Park to Ritter Park in Huntington, WV. TERRADON provided a 3-Phase Master Planning approach for a section of trail that is predicted to be heavily used by the Huntington Community.



RELATED PRIOR EXPERIENCE - Master Planning, Trails Putnam County Commission - Master Planning & Valley Park Expansion



TERRADON Corporation provided Master Planning and site civil design services for the expanding Valley Park in Hurricane, Putnam County, WV. This work is part of a nearly \$2 million expansion, which was completed in 2013 and adds an additional 6 acres to the park.

The project included planning for athletic fields, multiple parking lots, access roads and greenspace, but also incorporated a walking trail that ties into existing park trails. The plan was produced in coordination with the WVDOT to determine roadway/walkway ingress/egress and designed in accordance with local, state and federal regulations.



CONCEPTUAL MASTER PLAN
VALLEY PARK Hurricane, West Virginia

August, 1 2011
TERRADON
CORPORATION
1000 10th Street
Martinsburg, WV 26150
304.271.1111



Allegheny Design Services - Structural





**CONSULTING ENGINEERING FIRM SPECIALIZING
IN STRUCTURAL & MEP DESIGN
AND BUILDING ANALYSIS**

Allegheny Design Services is a consulting engineering firm specializing in structural & 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.

Over 70 years cumulative in Design and Project Management of:

- Commercial
- Industrial
- Institutional
- Educational Facilities



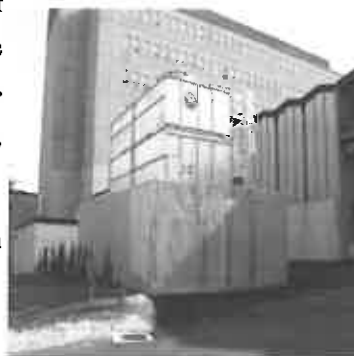
**HOTEL
CONFERENCE
CENTERS**



OFFICE BUILDINGS



SECONDARY EDUCATION



COOLING TOWERS



PARKING GARAGES



HEALTH CARE



INDUSTRIAL



ATHLETIC FACILITIES



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. We currently hold licenses in West Virginia, Pennsylvania, Maryland, Virginia, District of Columbia, North Carolina, South Carolina, Ohio and Florida, Tennessee, Indiana, Kentucky, Alabama, Nebraska and California.

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 workflow built upon the cohesive integration of 3D Revit modeling and the latest analysis software. This integration allows us to produce the highest quality designs in the timeframe needed for successful design-build projects. Our staff is comprised of multiple licensed Professional Engineers.

Allegheny Design Services
102 Leeway Street
Morgantown, WV 26505

P 304.599.0771
F 304.212.2396



Allegheny
Design Services
Consulting Engineers

**ALLEGHENY DESIGN SERVICES' EXPERIENCE
TEAMING WITH PARADIGM ARCHITECTURE**

**Davis & Elkins College Benedum Hall
Renovation
Elkins, WV**

ADS was a consultant to Paradigm Architecture for the Davis & Elkins College Benedum Hall Renovation. This 16,000 square foot renovation to Benedum Hall included the addition of a rotunda at the entrance. The work was completed in 2003.



**Fairmont State University Parking Garage
Fairmont, WV**

ADS was a consultant to Paradigm Architecture for the FSU Parking Garage. This design-build project was completed in 2003 at a cost of \$9.2 Million. This 900 car capacity facility was built over mine cavities which required pre-grouting.



**Fairmont State University Parking
Garage Pedestrian Bridge
Fairmont, WV**

ADS was a consultant to Paradigm Architecture for the FSU Parking Garage Pedestrian Bridge. The project consisted of adding a Pedestrian Bridge to access the 900 car parking garage. Steel and Concrete Materials were used. It was completed in 2003 at a cost of \$200,000.





Allegheny

Design Services

Consulting Engineers

ALLEGHENY DESIGN SERVICES' EXPERIENCE TEAMING WITH PARADIGM ARCHITECTURE

The View at the Park Morgantown, WV

ADS was a consultant to Paradigm Architecture for The View at the Park. The 6 story building contains 56 apartments. It was completed in 2003 at a cost of \$6 Million.



Waterfront Place Hotel & Conference Center Morgantown, WV

ADS was a consultant to Paradigm Architecture for the Waterfront Place Hotel & Conference Center. The \$33 Million hotel and conference center was completed in 2003. The 17 story building contains 300,000 sq. foot of heated space with a lower level parking garage.



Trinity Christian School Morgantown, WV

ADS was a consultant to Paradigm Architecture for the Trinity Christian School. The 50,000 square foot high school was completed in 2004 at a cost of \$5 Million.





Allegheny **Design Services** *Consulting Engineers*

ALLEGHENY DESIGN SERVICES' EXPERIENCE TEAMING WITH PARADIGM ARCHITECTURE

Glade Springs Hotel & Conference Center Daniels, WV

ADS was a consultant to Paradigm Architecture for the Glade Springs Hotel & Conference Center. The facility consists of a 40,000 sq. foot hotel wing, a 12,000 sq. foot conference center and a 2,000 sq. foot Porte Coche. It was completed in 2005 at a cost of \$5 Million.



Chestnut Ridge Church Morgantown, WV

ADS was a consultant to Paradigm Architecture for the Chestnut Ridge Community Church. At the time of completion in 2006 this was the largest church facility in West Virginia. At a cost of \$12 Million, it houses an education/gymnasium wing, administrative offices, and a 2000 seat sanctuary.



Davis & Elkins College Athletic Center Elkins, WV

ADS was a consultant to Paradigm Architecture for the Davis & Elkins College Athletic Center. The building houses a gymnasium, offices, and classrooms. At a cost of \$6 Million it was completed in 2006.





Allegheny

Design Services

Consulting Engineers

ALLEGHENY DESIGN SERVICES' EXPERIENCE TEAMING WITH PARADIGM ARCHITECTURE

Glades Springs Resort Clubhouse Expansion Daniels, WV

ADS was a consultant to Paradigm Architecture for the Glade Springs Resort Clubhouse Expansion. A two-story addition to the existing golf clubhouse was added. The lower level features men's and women's locker rooms, and the upper level houses the Bunkers Restaurant. It was completed in the Summer of 2006 for \$1.1 Million.



Boathouse Bistro Morgantown, WV

ADS was a consultant to Paradigm Architecture for the Boathouse Bistro. The building houses a restaurant, a docking facility, and WVU Crew Team storage. The \$5 Million facility was completed in 2007.



WVU Milan Puskar Stadium Touchdown Terrace Club Addition Morgantown, WV

ADS was a consultant to Paradigm Architecture for the WVU Milan Puskar Stadium Touchdown Terrace Club Addition. This project is a 7,800 sq. ft. addition including 1,332 sq. ft. of landscaping providing 200 additional club seats to the Milan Puskar Stadium at Mountaineer Field on the campus of WVU. Completed in the Fall of 2007 for \$800,000.





Allegheny **Design Services** *Consulting Engineers*

ALLEGHENY DESIGN SERVICES' EXPERIENCE TEAMING WITH PARADIGM ARCHITECTURE

Fairmont State University Hunt Haught Hall Renovations Fairmont, WV

ADS was a consultant to Paradigm Architecture for the FSU Hunt Haught Hall Renovations. Hunt Haught Hall had to be renovated to coordinate with the Master Plan and to resolve existing conflicts with the Americans with Disabilities Act. This renovation consisted of elimination of the pedestrian bridge and redesign of the front lobby including the monumental stairs and entrance doors. This project was completed in the Spring of 2008 for \$233,000.



The Dayton Morgantown, WV

ADS was a consultant to Paradigm Architecture for The Dayton. The Dayton is a 4 story modular building located at the corners of Ridgeway Avenue, Dayton Street and Richwood Avenue in Morgantown, WV. The building is a mixed used residential housing project with parking garage and retail space located on the ground level. ADS was responsible for foundation and structural system design. The project was completed in 2008 for approximately \$3.3 Million.



WVU Coliseum Team Shop Conversion Morgantown, WV

ADS was a consultant to Paradigm Architecture for the WVU Coliseum Team Shop Conversion. Renovation of approximately 2,000 Sq. Ft. on the 2nd Floor of the existing Coliseum for the WVU Physical Education Department. Provided the new office suite which encompasses two current racquetball courts and approximately 10 new offices. The space required installation of structure and floor system. The 1st floor space which was occupied by the courts was built out to include a concession stand and storage and office space for the Event Staff. Completed in the Summer of 2008 for \$1.5 Million.





Allegheny

Design Services

Consulting Engineers

ALLEGHENY DESIGN SERVICES' EXPERIENCE TEAMING WITH PARADIGM ARCHITECTURE

Glenmark Office Building Morgantown, WV

ADS was a consultant to Paradigm Architecture for the Glenmark Office Building. This three story office building is 10,000 sq. ft. and houses the corporate headquarters of Glenmark Holdings, LLC. This project was completed in the Spring of 2009 for \$1.6 Million.



GSA - Department of Energy Morgantown, WV

ADS was a consultant to Paradigm Architecture for the GSA - DOE. This office and records storage building was completed in 2009. At a cost of \$8 Million (shell only). LEED Gold (Core & Shell); LEED Gold (Commercial Interiors); 2010 Excellence in Construction by the Associated Builders & Contractors, Inc.—WV Chapter.



GSA/USDA Building Sabraton, WV

ADS was a consultant to Paradigm Architecture for the USDA Building located in the Sabraton Area of Morgantown. ADS provided foundation and structural system design. This project is registered as a LEED Certified Building. This project was completed in 2009 for approximately \$6.5 Million (Shell)





Allegheny **Design Services** *Consulting Engineers*

ALLEGHENY DESIGN SERVICES' EXPERIENCE TEAMING WITH PARADIGM ARCHITECTURE

Marina Tower Morgantown, WV

ADS was a consultant to Paradigm Architecture for the Marina Tower. At a cost of \$10 Million (shell only) this building was completed in 2009. The eight story structure was a winner of an Excellence in Construction Award from Associated Builders and Contractors, WV Chapter.



Morgantown Event Center Morgantown, WV

ADS is a consultant to Paradigm Architecture for the new Morgantown Event Center and Parking Garage, located in the Wharf District of Morgantown, WV. ADS is providing foundation and structural system design. Project completion was in 2009 for approximately \$23 Million.



WVU Honors Dormitory Morgantown, WV

ADS was a consultant to Paradigm Architecture for the new Honors Dormitory located on West Virginia University's downtown campus. This project was completed in 2009 for approximately \$17.65 Million. ADS was responsible for overall foundation and structural system design.





Allegheny

Design Services

Consulting Engineers

ALLEGHENY DESIGN SERVICES' EXPERIENCE TEAMING WITH PARADIGM ARCHITECTURE

WVU Mountaineer Station Morgantown, WV

ADS was a consultant to Paradigm Architecture for the WVU Mountaineer Station. The \$14.5 Million facility contains a 500 car parking garage, offices, public space, and retail space. It was completed in 2009. This project was a West Virginia AIA Merit Award Winner 2010; 2010 Excellence in Construction by the Associated Builders & Contractors, Inc.—WV Chapter; International Parking Institute 2011 Awards of Excellence Honorable Mention Winner.



Fairmont State University Hardway Hall Entrance Renovation Fairmont, WV

ADS was a consultant to Paradigm Architecture for the FSU Hardway Hall Entrance Renovation. This project consisted of Water Damage Restoration, Porch Deck Restoration and Structural Stabilization. This project was completed in 2010 for approximately \$500,000.



KeyLogic Renovation Morgantown, WV

ADS was a consultant to Paradigm Architecture for the KeyLogic Renovation. This project consisted of renovating the entire building, new elevator shaft tower and front façade addition. This renovation was completed in 2010 for \$1.6 Million.





Allegheny **Design Services** *Consulting Engineers*

ALLEGHENY DESIGN SERVICES' EXPERIENCE TEAMING WITH PARADIGM ARCHITECTURE

Morgantown Event Center Parking Garage **Morgantown, WV**

ADS was a consultant to Paradigm Architecture for the Morgantown Event Center Parking Garage. This project consists of a 500 car parking garage. This project was completed in 2010 for approximately \$5 Million.



Middletown Tractor **Fairmont, WV**

ADS was a consultant to Paradigm Architecture for the Middletown Tractor Building. This project consists of a 20,000 sq. ft. Sales and Supply Facility, Pre-Engineered Metal Building and Shallow Foundation System. This project was completed in 2011 for approximately \$1.7 Million.



Pillar Innovations Office Building **Morgantown, WV**

ADS was a consultant to Paradigm Architecture for the Pillar Innovations Office Building. This project consists of a 2-Story Office Building with 20,000 Sq. Ft. Total Space, Structural Steel and Shallow Foundations. This project was completed in 2011 for approximately \$3.5 Million.





Allegheny **Design Services** *Consulting Engineers*

ALLEGHENY DESIGN SERVICES' EXPERIENCE TEAMING WITH PARADIGM ARCHITECTURE

WVU Greenhouse Morgantown, WV

ADS was a consultant to Paradigm Architecture for the WVU Greenhouse. This project is a replacement facility for the current Greenhouse and Headhouse for the AG-Science Department on the Evansdale Campus. The size of the project is defined as roughly 8,500 SF for the Headhouse and 18,600 SF for the Greenhouse. The location of the project is on the current site of the existing Greenhouse facility. The new building will utilize the campus steam line for mechanical systems. Completed Summer 2012, for \$8.8 Million.



WVU Visitor's Resource Center Morgantown, WV

ADS was a consultant to Paradigm Architecture for the WVU Visitor's Resource Center. The \$900,000 facility consists of 4,200 square foot resource center and theater renovation in an existing 7-story building. Structural work included support systems for hanging partition walls and components. A total building analysis was performed to facilitate relocation of wind bracing. The project was completed in 2012 for approximately \$900,000.



WVUP—New Science Wing- West Virginia University Parkersburg Parkersburg, WV

Summer 2013





Allegheny

Design Services

Consulting Engineers

ALLEGHENY DESIGN SERVICES' EXPERIENCE TEAMING WITH PARADIGM ARCHITECTURE

Canaan Valley Resort State Park Davis, WV

ADS was a consultant to Paradigm Architecture for the Canaan Valley Resort State Park. The project consisted of the construction of two brand new Guests Wings (162 Rooms) and Extensive Renovations of the Main Lodge. 102,534 SF (Addition); 64,993 SF (Renovation) ; Design-Bid-Build. The project was completed in Fall 2013 for approximately \$25 Million.



College Park Dormitories Morgantown, WV

ADS is a consultant to Paradigm Architecture for the College Park Dormitories. This project includes the design of several multiple family structures and a clubhouse encompassing approximately 200,000 sq. ft. with over 200 residential units. At a cost of \$32 Million this project is expected to be completed in 2014.



Cacapon Resort State Park Addition and Renovations Cacapon, WV

ADS is a consultant to Paradigm Architecture for the Cacapon Resort State Park Improvement Projects. ADS will be providing design of foundations and structural system design. The new addition provides an additional 79 guest rooms, swimming pools, new dining facilities and commercial kitchen, and a spa and fitness area. Additional renovations to the resort includes golf course upgrades, as well as water and wastewater treatment upgrades. This is a Design-Bid-Build Project.





Allegheny Design Services

Consulting Engineers

ALLEGHENY DESIGN SERVICES' EXPERIENCE TEAMING WITH PARADIGM ARCHITECTURE

“ University Park”

University Park Apartments Morgantown, WV

Allegheny Design Services, Morgantown, WV is proud to have provided the structural engineering design for this new development. The development consists of Oakland Hall, a dual tower dormitory, a mixed use building housing retail and apartments, and a pair of multi-story apartment buildings. The design team included Paradigm Architects of Morgantown, WV.



University Park Mixed Use Building Morgantown, WV

The Design-Build delivery method was used. Due to having 5 different structures built under one contract, the design effort was sequenced to accommodate the multi-building delivery. Total construction costs of the project was \$73 million.

Site condition varied from shallow rock, to overburdened coal seams, to filled in stream beds. Foundations systems varied from spread footings, deep caissons, to mat foundations. Each building consisted of structural steel framing with concrete deck floors.



University Park Dormitory Morgantown, WV

The project is the third and final phase of the West Virginia University student housing master plan. The development will provide 1300 beds, food services and retail. The project was provided through a public-private partnership between WVU and Glenmark Holdings LLC of Morgantown, WV. The five structures total 434,104 square feet. Construction started in the winter of 2013 and will be ready for occupancy in the summer of 2015.





Allegheny
Design Services
Consulting Engineers

ALLEGHENY DESIGN SERVICES' EXPERIENCE TEAMING WITH PARADIGM ARCHITECTURE

Beitzel Office Building

Grantsville, MD

ADS is proud to announce the completion of another project! Our structural and MEP engineers worked with Paradigm Architecture on the new corporate headquarters for Beitzel Corporation. The project consists of a 2-story 30,000 square foot building with room for 150 employees. It was built in Northern Garrett County Industrial Park in Grantsville, MD. The project deliverable design included a coordinated building information model including Structural, MEP, and Architectural models. The building owner expressed interest in saving energy through the use of efficient building systems. ADS incorporated energy efficient HVAC & plumbing system designs into the construction documents. The HVAC system equipment consists of 12.2 EER packaged gas/electric rooftop units with multiple variable air volume units. Design options include the use of variable frequency drive, multiple R410A refrigeration circuits, and multiple stage heating to name a few. VAV units allow greater precision heating or cooling to various types of spaces to maintain adequate thermal comfort. Plumbing systems include water conserving fixtures and high efficiency water heater to realize additional energy savings. The lighting utilizes LED technology with occupancy sensing controls for greater energy savings. The building is designed for a future generator to provide backup power for the entire building.



University Place Parking Garage

Morgantown, WV

A 700 Car Capacity Parking Garage and Mixed Use Retail Space. All Structural Steel Construction. Serves University Place Residential Facility. This project was completed in 2015 for approximately \$17 million.





Allegheny Design Services - MEP/FP





Allegheny
Design Services
Consulting Engineers



102 LEEWAY STREET MORGANTOWN, WV 26505
PHONE: (304) 599-0771—WWW.ALLEGHENYDESIGN.COM

CONSULTING ENGINEERING FIRM SPECIALIZING IN STRUCTURAL & MEP DESIGN AND BUILDING

HOTELS & CONFERENCE CENTERS



HEALTH CARE



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ATHLETIC FACILITIES &
VIDEO BOARDS

BALLPARK OF THE YEAR!



Welcome to Allegheny Design Services

Allegheny Design Services is a consulting engineering firm specializing in Structural & MEP building design and analysis.

Dedicated to serving West Virginia and the surrounding region, ADS recognizes the need for reliable and full service engineering service for our clients. ADS provides all phases necessary to successfully complete a building project including: schematic design, design development, construction documents and specifications, and construction administration. Our straightforward approach provides our clients with efficient and creative solutions to their project. We currently hold licenses in West Virginia, Pennsylvania, Ohio, Indiana, Maryland, Virginia, District of Columbia, South Carolina, Louisiana, Alabama, Tennessee, Kentucky, Georgia and Florida.

Specialties—Structural Engineering, Mechanical, Electrical, and Plumbing Engineering, Building Information Modeling, System Engineering

OFFICE BUILDINGS



PARKING GARAGES



INDUSTRIAL



COOLING TOWERS





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. We currently hold licenses in multiple SE states including West Virginia, Pennsylvania, Maryland, Virginia, District of Columbia, North Carolina, South Carolina and Ohio.

ADS' experience in Design and Project Management includes:

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

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

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

Value Added Services

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

Allegheny Design Services
102 Leeway Street
Morgantown, WV 26505

P 304.599.0771
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Allegheny
Design Services
Consulting Engineers

**ALLEGHENY DESIGN SERVICES' EXPERIENCE
TEAMING WITH PARADIGM ARCHITECTURE**

**Beitzel / Pillar Innovations
Office Building
Morgantown, WV**

ADS was a consultant to Paradigm Architecture for Pillar Innovations Office Building. A 2-story office Building with 20,000 Sq. Ft. total space. Packaged Rooftop Units with DX Cooling, Gas Heating and VVT Zone Dampers. High Efficient Fluorescent Lighting, 1200 amp 208/120 Volt, 3 Phase Service. Addressable Fire Alarm System, Sprinkler System, Raceway Infrastructure for Telecommunications Cabling. This project was completed in 2011 for approximately \$3.5 Million.



**Beitzel Office Building
Grantsville, MD**

ADS was a consultant to Paradigm Architecture for the Beitzel Office Building. ADS incorporated energy efficient HVAC & plumbing system designs into the construction documents. The HVAC system equipment consists of 12.2 EER packaged gas/electric rooftop units with multiple variable air volume units. Design options include the use of variable frequency drive, multiple R410A refrigeration circuits, and multiple stage heating to name a few. VAV units allow greater precision heating or cooling to various types of spaces to maintain adequate thermal comfort. Plumbing systems include water conserving fixtures and high efficiency water heater to realize additional energy savings. The lighting utilizes LED technology with occupancy sensing controls for greater energy savings. The building is designed for a future generator to provide backup power for the entire building.





Allegheny **Design Services** *Consulting Engineers*

ALLEGHENY DESIGN SERVICES' EXPERIENCE TEAMING WITH PARADIGM ARCHITECTURE

West Virginia University Marina Tower Fitout 2nd Floor Morgantown, WV

ADS was a consultant to Paradigm Architecture for the West Virginia University Marina Tower Fitout. The project consists of two 11,000 Sq. Ft. office fitouts occupying two floors in existing high rise building. The heating and cooling supplied by two dedicated air handlers on each floor with chilled water supply. VAV Terminal Boxes with hot water reheat serve multiple zones throughout each floor. Heating and cooling functions are controlled and monitored via a central DDC building management system. High efficient fluorescent lighting with occupancy sensing controls. Extension of existing fire alarm and sprinkler systems. This 2nd Floor project was completed in 2011 for approximately \$2.2 Million.



West Virginia University Marina Tower Fitout 4th Floor Morgantown, WV

ADS was a consultant to Paradigm Architecture for the West Virginia University Marina Tower Fitout. The project consists of two 11,000 Sq. Ft. office fitouts occupying two floors in existing high rise building. The heating and cooling supplied by two dedicated air handlers on each floor with chilled water supply. VAV Terminal Boxes with hot water reheat serve multiple zones throughout each floor. Heating and cooling functions are controlled and monitored via





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**ALLEGHENY DESIGN SERVICES' EXPERIENCE
TEAMING WITH PARADIGM ARCHITECTURE**

**West Virginia University
Jackson Kelly 3rd Floor Renovations
Morgantown, WV**

ADS was a consultant to Paradigm Architecture for the West Virginia University Jackson Kelly 3rd Floor Renovations. The project consists of a 7,680 Sq. Ft. Office Renovation in an existing 6-story building. The heating and cooling supplied by a dedicated air handler on the floor with chilled water supply. VAV Terminal Boxes with hot water reheat serve multiple zones throughout the floor. Heating and Cooling functions are controlled and monitored via a central DDC building management system. High efficient fluorescent lighting with digital dimming controls. Modification of existing fire alarm and sprinkler systems to suit new floor plan. This project was completed in 2011 for approximately \$900,000.



**South Ridge Church
Fairmont, WV**

ADS was a consultant to Paradigm Architecture for the South Ridge Church . A New 15,000 Sq. Ft. Church. The Sanctuary seats 440. Approximately 8,600 Sq. Ft . consists of Offices and Educational Areas. The project was completed in 2010 for approximately \$10 Million.





Allegheny

Design Services

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ALLEGHENY DESIGN SERVICES' EXPERIENCE TEAMING WITH PARADIGM ARCHITECTURE

West Virginia University Visitor's Resource Center Morgantown, WV

ADS was a consultant to Paradigm Architecture for the West Virginia University Visitor's Resource Center. The project consisted of a 4,200 Sq. Ft. Resource Center and Theater renovation in an existing 7-story building. The heating and cooling supplied by a dedicated air handler on the floor with chilled water supply. VAV Terminal Boxes with hot water reheat serve multiple zones throughout the floor. High efficient fluorescent lighting with digital dimming controls. Modification of existing fire alarm and sprinkler systems to suit new floor plan. This project was completed in 2012 for approximately 900,000.



College Park Dormitories Morgantown, WV

ADS was a consultant to Paradigm Architecture for the College Park Dormitories. The project included the design of several multiple family structures and a clubhouse encompassing approximately 200,000 SF with over 200 residential units. Heat pumps used for heating and cooling of each residential unit. Single phase electrical service and individual panel board serve each residential unit. The project was completed in 2014 for approximately \$32 Million.





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**ALLEGHENY DESIGN SERVICES' EXPERIENCE
TEAMING WITH PARADIGM ARCHITECTURE**

**WVU CAC Rehearsal Hall
Morgantown, WV**

ADS was a consultant to Paradigm Architecture for the WVU CAC Rehearsal Hall. Mechanical and Electrical Engineering Design; Construction Documents, and Construction Administration



**Black Knight Country Club
Renovation
Beckley, WV**

ADS was a consultant to Paradigm Architecture for the Black Knight Country Club Renovations. Renovations included a bar and dining area, private dining area and a new elevator. Electrical service upgrade and lighting replacement. Replaced existing split system HVAC equipment and reconfigured ductwork for renovated spaces. New packaged DX / Gas Rooftop Units for dining room addition. The project was completed in the Fall of 2012 for approximately \$1.2 Million.





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Consulting Engineers

**ALLEGHENY DESIGN SERVICES' EXPERIENCE
TEAMING WITH PARADIGM ARCHITECTURE**

**Sunnyside Commons
Morgantown, WV**

Ground was broken, July 29,
2015 on the latest private student
housing project in Morgantown.

U Club Sunnyside will be built
off of Jones Avenue at the site of
the former Sunnyside Commons
apartments. It will have more
than 500 beds and feature amenities like a
pool, a nearly 8,500-square-foot communi-
ty center, a fitness center and study rooms.

This project should be completed in 2016
for approximately \$30 million.



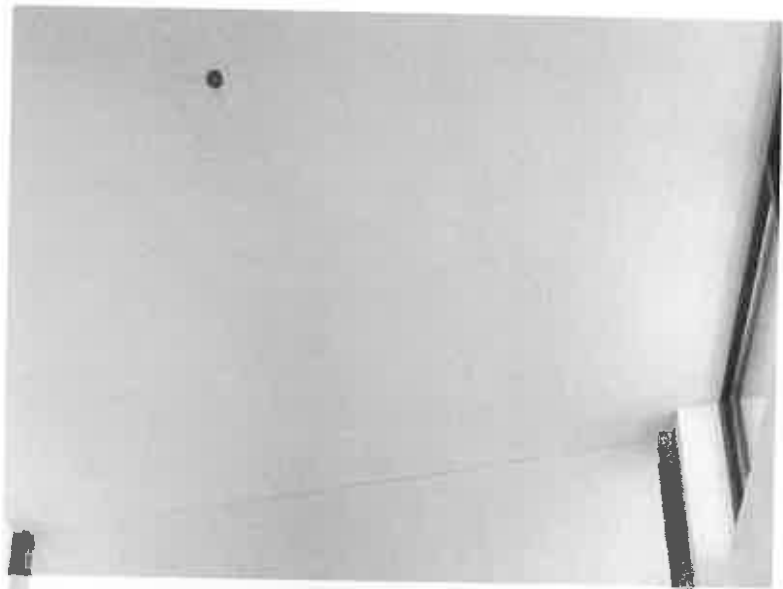


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**ALLEGHENY DESIGN SERVICES' EXPERIENCE
TEAMING WITH PARADIGM ARCHITECTURE**

ADDITIONAL EXPERIENCE:

MVB Insurance at Marina Tower
The Residences at Waterfront Place—Condo 1601
Phi Sigma Kappa
Mollohan Space
USGA Census Bureau
Booz Allen Hamilton Marina Tower Up-Fit
WVU Marina Tower Fitout—2nd and 4th Floors
FSU Hardway Hall Entrance Renovation
South Ridge Church
Wedgewood Psychiatry Office Renovation
Mon General Hospital—CT Surgery Renovation
Mon General Hospital—Lab Relocation
Mining Controls Addition
Potomac State Catamount Place
Frank's Pizza at Beech View Place
Pillar Innovations Office Building
WVU Vandalia Hall Stair Addition
University Place Townhomes



Executed Documents





Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

State of West Virginia
 Centralized Expression of Interest
 02 - Architect/Engr

Proc Folder: 202118

Doc Description: A/E for Claudia L. Workman Fish & Wildlife Education Center

Proc Type: Central Contract - Fixed Amt

Issued	Solicitation Closes	Solicitation No	Version
2016-04-26	2016-05-02 13:30:00	CEOI 0310 DNR1600000018	1

RECEIVING LOCATION
 D CLERK
 DEPARTMENT OF ADMINISTRATION
 PURCHASING DIVISION
 2019 WASHINGTON ST E
 CHARLESTON WV 25305

ENDORSE
 Vendor Name, Address and Telephone Number:

FOR INFORMATION CONTACT THE BUYER
 L. Nisbet
 (304) 558-2596
 l.nisbet@wv.gov

Signature X: *[Handwritten Signature]* FEIN # 63-1263568 DATE 6/1/16
 Offers subject to all terms and conditions contained in this solicitation

CERTIFICATION AND SIGNATURE PAGE

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.

Paradigm Architecture, inc.

(Company)

 Paul A. Walker, President

(Authorized Signature) (Representative Name, Title)

304.284.5015 - 304.284.5014 - 6/1/16

(Phone Number) (Fax Number) (Date)

**ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.:**

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 checked="" 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.

Paradigm Architecture, Inc.

Company

Authorized Signature

6/1/16

Date

NOTE: This addendum acknowledgement 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 perjury 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: Paradigm Architecture, Inc.

Authorized Signature: [Signature] Date: 6/1/16

State of West Virginia

County of Monongalia, to-wit:

Subscribed, signed, and sworn to before me this 1st day of June, 2020.

My Commission expires May 28, 2020.

FIX SEAL HERE

NOTARY PUBLIC

[Signature]

Purchasing Affidavit (Revised 08/01/2015)





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Morgantown, WV 26508
T 304.284.5015 | F 304.284.5014

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