Statement of Qualifications
Engineering and Architectural Services

West Virginia Division of Natural Resources
Parks and Recreation Section

Submitted By:

RANDOLPH ENGINEERING

In Association With:

Edward Tucker ARCHITECTS, INC.

Cacapon Resort State Park
Lodge Expansion and Park Improvements

December 9, 2008

TABLE OF CONTENTS

section 1

PROPOSAL DOCUMENTS

State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER	PAGE
DNR209057	1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
FRANK WHITTAKER
304-558-2316

VENDOR
RFQ COPY
TYPE NAME/ADDRESS HERE
Randolph Engineering Co., Inc.
4414 Teays Valley Road
P. O. Box 346
Scott Depot, WV 25560

SHIP TO
DIVISION OF NATURAL RESOURCES
PARKS & RECREATION SECTION
BUILDING 3, ROOM 719
1900 KANAWHA BOULEVARD, EAST
CHARLESTON, WV
25305-0662 304-558-2775

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
11/06/2008				

BID OPENING DATE: 12/09/2008 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LS		906-00-00-001		

ARCHITECT/ENGINEERING SERVICES, PROFESSIONAL

EXPRESSION OF INTEREST

THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, THE WEST VIRGINIA DIVISION IF NATURAL RESOURCES, IS SOLICITING EXPRESSIONS OF INTEREST FOR ARCHITECTURAL AND ENGINEERING SERVICES FOR LODGE EXPANSION AND PARK IMPROVEMENTS AT CACAPON RESORT STATE PARK LOCATED IN BERKELEY SPRINGS WV, PER THE ATTACHED SPECIFICATIONS.

TECHNICAL QUESTIONS MUST BE SUBMITTED IN WRITING TO FRANK WHITTAKER IN THE WEST VIRGINIA PURCHASING DIVISION VIA FAX AT 304-558-4115 OR VIA EMAIL AT FRANK.M.WHITTAKER@WV.GOV. DEADLINE FOR ALL TECHNICAL QUESTIONS IS NOVEMBER 21, 2008 AT 3:00 PM. ALL TECHNICAL QUESTIONS RECEIVED, IF ANY WILL BE ANSWERED BY ADDENDUM AFTER THE DEADLINE.

QUESTIONS CONCERNING THE PROCESS BY WHICH A VENDOR MAY SUBMIT AN EXPRESSION OF INTEREST TO THE STATE OF WEST VIRGINIA ARE NOT CONSIDERED TECHNICAL QUESTIONS AND MAY BE SUBMITTED AT ANY TIME PRIOR TO THE BID OPENING DATE AND TIME.

EXHIBIT 10

ADDENDUM ACKNOWLEDGEMENT

I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE Wayne C Randolph TELEPHONE 304.757.9217 DATE 12/8/08

TITLE President FEIN 55-0588736 ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

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MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.

ADDENDUM NOS.:

NO. 1 ..... X .....

NO. 2 .....

NO. 3 .....

NO. 4 .....

NO. 5 .....

I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF THE BIDS.

VENDOR MUST CLEARLY 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.

Roger K Randolph Jr. ..... SIGNATURE

RANDOLPH ENGINEERING ..... COMPANY

12/8/08 ..... DATE

REV. 11/96

BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THIS CONTRACT IS AUTOMATI-

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
Roger K Randolph Jr.	304.757.9217	12/8/08
TITLE: President	FEIN: 55-0588736	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

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Charleston, WV 25305-0130

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DNR209057	3

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CALLY NULL AND VOID, AND IS TERMINATED WITHOUT FURTHER ORDER.

REV. 1/2005

NOTICE

A SIGNED BID MUST BE SUBMITTED TO:

DEPARTMENT OF ADMINISTRATION
PURCHASING DIVISION
BUILDING 15
2019 WASHINGTON STREET, EAST
CHARLESTON, WV 25305-0130

THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:

SEALED BID

BUYER: 44

REQ. NO.: DNR209057

BID OPENING DATE: 12/09/08

BID OPENING TIME: 1:30 PM

PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:

PLEASE PRINT OR TYPE NAME OF PERSON TO CONTACT

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE Ronnie Randolph TELEPHONE 304.757.9217 DATE 12/8/08

TITLE President FEIN 55-0588736 ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

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CONCERNING THIS QUOTE:

****** THIS IS THE END OF RFQ DNR209057 ****** TOTAL:

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE Ryan Randolph TELEPHONE 304.757.9217 DATE 12/8/08

TITLE President FEIN 55-0588736 ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

RANDOLPH ENGINEERING CONTACT INDIVIDUALS*

Roger K. Randolph, P.E., President
P. O. Box 346
Scott Depot, WV 25560
(304) 757-9217

Aaron C. Randolph, P.E., Secretary
P. O. Box 346
Scott Depot, WV 25560
(304) 757-9217

Vendor Registration No. 55-058-8736

*Persons authorized to conduct negotiations and contractually sign for Randolph Engineering Co., Inc.

RFQ No DNR 209057

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

VENDOR OWING A DEBT TO THE STATE:
West Virginia Code §5A-3-10a provides that: 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 the debt owed is an amount greater than one thousand dollars in the aggregate.

PUBLIC IMPROVEMENT CONTRACTS & DRUG-FREE WORKPLACE ACT:
West Virginia Code §21-1D-5 provides that: Any solicitation for a public improvement construction contract shall require each vendor that submits a bid for the work to submit at the same time an affidavit that the vendor has a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the West Virginia Code. A public improvement construction contract may not be awarded to a vendor who does not have a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the West Virginia Code and who has not submitted that plan to the appropriate contracting authority in timely fashion. For a vendor who is a subcontractor, compliance with Section 5, Article 1D, Chapter 21 of the West Virginia Code may take place before their work on the public improvement is begun.

ANTITRUST:
In submitting a bid to any agency for the state of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the state of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the state of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the state of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership or person or entity submitting a bid for the same materials, supplies, equipment or services and is in all respects fair and without collusion or fraud I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

LICENSING:
Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

CONFIDENTIALITY:
The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendors should visit **www.state.wv.us/admin/purchase/privacy** for the Notice of Agency Confidentiality Policies.

Under penalty of law for false swearing (West Virginia Code §61-5-3), it is hereby certified that the vendor acknowledges the information in this said affidavit and is in compliance with the requirements as stated.

Vendor's Name: Randolph Engineering Co., Inc.

Authorized Signature: Joseph K Randolph Date: 12/8/08

section 2

TECHNICAL PROPOSAL

Introduction

Randolph Engineering and Edward Tucker Architects have a history of completing successful projects together. Both firms enjoy outstanding reputations for quality, innovation and client satisfaction.

Randolph Engineering is a multi-disciplined consulting engineering firm in Teays Valley, West Virginia. The company recently celebrated 30 years of providing innovative engineering solutions to a variety of clients ranging from municipalities and government agencies to private real estate developers. Our success is the result of outstanding client service and satisfaction.

Edward Tucker Architects, Inc., founded in 1996 and based in Huntington, West Virginia was built on a tradition of architecture established in 1910. The firm thrives on creativity, mutual trust and shared ideas to create lasting value for every client and has developed a reputation in the community and beyond for quality design, exceptional client service and a deep sense of professional responsibility. With five licensed architects on staff, the firm offers a high level of capability and dedication to producing quality projects.

Projects

Together we have successfully completed projects ranging from structural inspection and analysis to the design of new and renovated buildings. Our most recent joint project involved the design of a new gymnasium for Raceland High School located in Raceland, Kentucky.

Individually we have completed major site development and expansion projects for some of the largest retailers and private companies in West Virginia as well as the United States; large and small municipal water and sewer improvement projects; and site designs for large, single- and multi-family residential subdivisions, townhouses and apartment complexes, including a 250-unit gated community near Charleston, West Virginia. Architectural design projects have included major expansions and new construction for educational, medical, historical and governmental facilities, including projects for Marshall University, Cabell Huntington Hospital and the Veteran's Administration regional offices.

Looking to the future

Successful projects such as these and an unending commitment to client satisfaction paint a bright picture for our future. We look forward to overcoming even more engineering challenges and continued growth in the coming years.

RANDOLPH ENGINEERING

Edward Tucker ARCHITECTS, INC.

General Experience and Capabilities

We have successfully completed similar projects for numerous public and private clients with a focus on client participation and satisfaction. Between Randolph Engineering and Edward Tucker Architects we have successfully completed new and renovated building, site and municipal design projects that total in the hundreds.

With three licensed engineers and five licensed architects as well as various senior level designers, CADD technicians and survey personnel we have the ability to provide a turn key project within the project schedule.

Key staff members are listed as follows:

Roger K. Randolph, P.E., P.L.S.	Edward W. Tucker, AIA
Aaron C. Randolph, P.E., S.I.	Walter Wilkes, AIA
Jacob White, P.E.	Nathan J. Randolph, AIA
Donald Hayes, P.L.S.	Phoebe P. Randolph, AIA

Resumes for these team members can be found in Section 3 of this prospectus.

Relevant Project Experience

Descriptions for some of the notable projects designed recently by Randolph Engineering and Edward Tucker can be found in section 4 of this prospectus.

Subconsultants

Novel Geo-Environmental, PLLC will provide soil analysis and geotechnical engineering for this project and Scheeser, Buckley, Mayfield, LLC will provide electrical and mechanical engineering services for this project.

Company profiles for both can be found in section 5 of this prospectus.

Surveying and Mapping

Randolph Engineering maintains a fully equipped survey crew managed by a professional surveyor and supported by survey design staff. We utilize the latest in surveying technology including GPS surveying equipment. We generate our own contoured mapping for small to intermediate projects and utilize an aerial mapping sub-consultant if the project size or economics dictate that we do so.

Design Engineering and Contract Document Preparation

Randolph Engineering and Edward Tucker Architects maintain and utilizes the latest versions of Autocad and Microstation running on high-end computers linked to a central server for plan development. We utilize high speed printers and large format plotters for document output.

Office Location

All work for this project will be managed from Randolph Engineering office located in Scott Depot, West Virginia.

Cost Accounting Information Statement

Randolph Engineering maintains a cost accounting system that is capable of segregating and identifying accumulating costs for each project.

Qualifications of Personnel

Our most valuable resource is our staff. Our talented and dedicated staff has provided engineering and architectural solutions to some of our client's most challenging projects. One key to our success has been reliable and consistent staffing. Key members of our staff have been with their respective firms for several years. This loyalty affords our clients a sense of dedication and stability.

The engineers and architects at Randolph Engineering and Edward Tucker are well versed in the planning, design and construction administration as well regulatory agency rules and regulations for projects of all sizes and complexity. Additionally, the engineers, architects and design staff are encouraged to further their education and experience through the attendance of design seminars, product seminars and other outside training opportunities.

Corporate Specialized Experience

As stated previously, Randolph Engineering and Edward Tucker Architects have extensive experience with this type of project. We have worked with local developers, private and corporate companies, municipalities as well as public agencies on numerous civil engineering and architectural design projects. This wide range of experience gives us a unique insight into this type of project.

Management Plan

Randolph Engineering will be responsible for the following aspects of the project:

- Site/Civil Engineering including permitting, parking, lighting & storm water
- Structural Engineering for the lodge expansion
- Assistance with Golf Course Improvements
- Water System Improvements including permitting
- Sanitary Sewer System Improvements including permitting

Edward Tucker Architects will be responsible for the following aspects of the project:

- Architectural Design for the lodge expansion
- Expansion of the existing Dining and Kitchen areas
- Fire protection design for the existing lodge as well as the expansion
- Design services for the fitness, spa and indoor pool
- Existing HVAC improvements
- Landscaping and Golf Course improvements
- Interior Design and Furnishings

Resource Allocation

Randolph Engineering and Edward Tucker Architects, as with all of our clients, are committed to providing professional services to the state of West Virginia. We will commit the required staff, equipment and materials to accomplish the goals set forth for this project in a timely and cost effective manner.

Schedule and Budget Control

We have a long history of completing projects within budget and time constraints. With a large client base of private clients, schedule, budgets and fees can quickly become make-or-break issues with regard to the feasibility of a project. Our project managers are experienced and well versed in meeting project schedules with budget constraints in mind.

Additionally, Randolph Engineering is a West Virginia licensed contractor. This gives us a unique insight into potential economies within a project that may benefit our clients.

section 3

RANDOLPH ENGINEERING CO., INC PROFILE

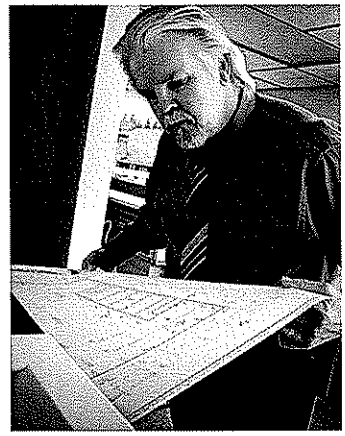
firm profile

Introduction

Randolph Engineering is a multi-disciplined consulting engineering firm in Teays Valley, West Virginia. The company recently celebrated 30 years of providing innovative engineering solutions to a variety of clients ranging from municipalities and government agencies to private land developers. Our success is the result of outstanding client service and satisfaction.

Our history

The company was founded by Roger and Grace Randolph in 1976, and from a modest beginning has grown into an award-winning regional engineering firm. Our attention to detail and commitment to client satisfaction have generated repeat and referral clients, some of whom have been with us since our inception.

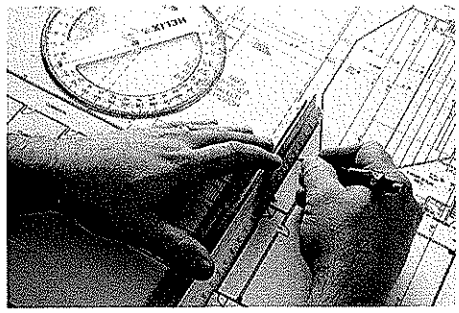


Roger Randolph maintains an active role as project manager on a variety of municipal, structural and land development projects. His wealth of knowledge and experience is a valuable asset to the company's next generation of engineers and designers.

Building on success

Randolph Engineering is situated in one of West Virginia's fastest-growing areas – a location that has afforded the opportunity to diversify into a full-service engineering firm. We offer an array of services including transportation engineering; municipal engineering; land development and surveying; structural engineering; building engineering; and construction engineering.

One of our keys to success is the reliability and stability provided by our employees' loyalty and longevity. Many of our staff members have worked with Randolph for more than 25 years, with a number of others approaching that milestone.



Our projects

Our variety of clients and engineering projects creates interesting and unique challenges for the engineers and designers at Randolph Engineering.

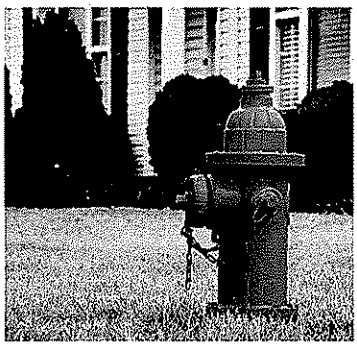
Some of our notable projects include the award-winning Jackson's Mill Bridge for the West Virginia Division of Highways; site improvements and plant expansions for Toyota Motor Manufacturing; complete renovation and expansion of the City of Hurricane wastewater treatment plant; site designs for some of the largest retailers in the United States; and site designs for large, single- and multi-family residential subdivisions, townhouses and apartment complexes, including a 250-unit gated community near Charleston, W.Va.

Looking to the future

Successful projects such as these and an unending commitment to client satisfaction paint a bright picture for our future. We look forward to the challenges that the next 30 years will bring.

RANDOLPH
ENGINEERING

municipal engineering



Water distribution, wastewater collection and storm water management are vital services to the quality of life for both residents and communities. Our focus is to provide cost effective and viable solutions to the problems many communities face in regard to these issues. In addition to the design of new water, wastewater and storm water systems, we also assist our clients with the planning and expansion of existing systems as well as providing solutions to alleviate storm water problems.

We offer the following municipal engineering services:

Water Distribution

- Water Treatment Plant Design
- Distribution System Modeling and Design
- Pump Station Design
- Storage Facility Design
- System Rehabilitation and Expansion
- Permitting

Wastewater Collection

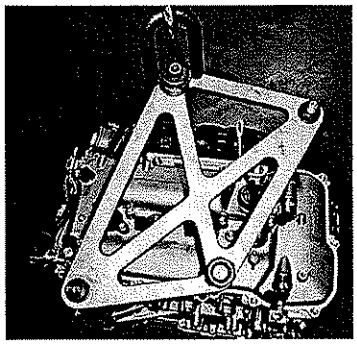
- Sanitary Sewer System Design
- Treatment Plant Design
- System Rehabilitation and Expansion
- Permitting
- Pump Station Design

Storm Water Management

- Hydraulic Modeling
- Open and Closed System Design
- Detention/Retention Design
- Permitting

RANDOLPH
ENGINEERING

structural engineering



Structural Engineering is one of the more fundamental and important services that we offer. Our staff has provided innovative solutions on a variety of structural projects. From simple building foundation designs and retaining walls to complex steel and concrete structures we have the experience to provide cost effective designs that meet the needs of our clientele.

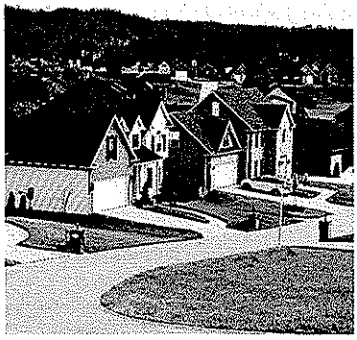
We offer the following structural engineering services:

- Structural Framing Design
- Masonry Design
- Foundation Design
- Retaining Wall Design
- Sanitary Structure Design
- Structural Inspection and Evaluation
- Erection/Demolition Planning
- Special Structures

Extensive experience in steel, concrete, masonry, timber and fiber reinforced plastic (FRP) design affords us the opportunity to provide our clients a wide range of materials that best fits their project scope and budget.

RANDOLPH
ENGINEERING

land development



Randolph Engineering has guided many land development projects from the conceptual stage through final design, to construction. We provide engineering design services for residential, commercial and industrial developers as well as governmental agencies. Our talented and knowledgeable staff of engineers and designers work with local, state and federal regulatory agencies to ensure that all projects are in compliance and are designed in an efficient and cost effective manner.

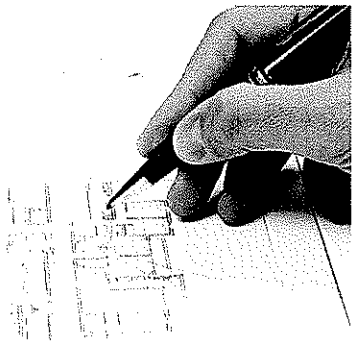
We offer the following land development engineering services:

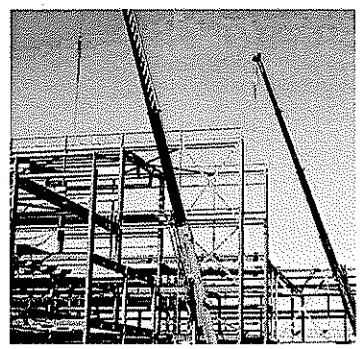
- Land Use Planning
- Single-Family Residential
- Multi-Family Residential
- Commercial Site Design
- Industrial Site Design
- Surveying

From small 10 lot residential subdivisions to large townhouse developments, industrial parks to commercial sites we offer the experience and capabilities to deliver any land development project from idea to reality.

RANDOLPH
ENGINEERING

building design





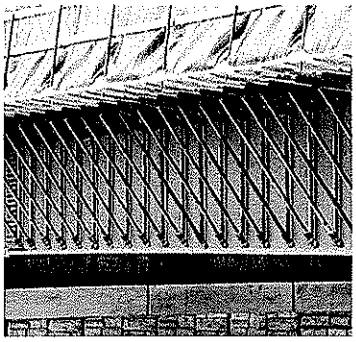
The design of pre-fabricated buildings is a niche that we have developed through the years by working closely with several building manufacturers. Our staff has provided unique solutions on a range of challenging building designs ranging from heavy industrial warehouses to churches. This extensive experience and successful working relationships with the manufacturer allows us to provide value as well as service to our clients.

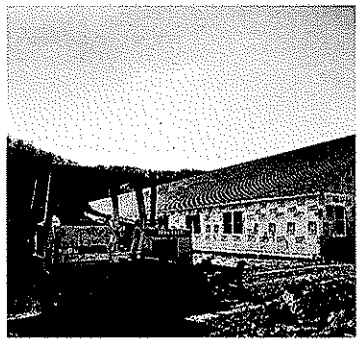
We offer the following building design engineering services:

- Pre-Fabricated Building Design
- Framing Design
- Foundation Design
- Mechanical System Design
- Electrical System Design
- Plumbing Design
- Site Layout

RANDOLPH
ENGINEERING

construction engineering





We offer the contracting industry a variety of engineering services that ensure the success of their projects. We have worked with various contractors including utility contractors, bridge contractors and building contractors.

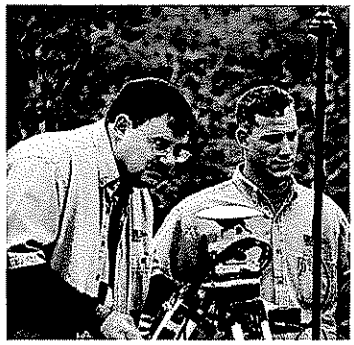
Providing construction engineering services to the contracting industry gives us a unique perspective that translates to efficiency with regard to our design projects. This intimate knowledge of construction practices affords us the ability provide our clients with cost effective designs without sacrificing quality.

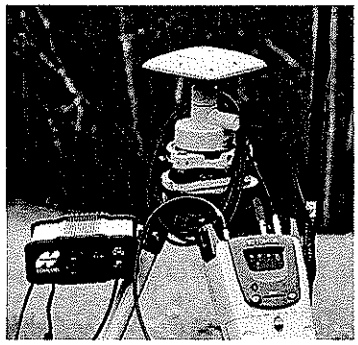
We offer the following construction engineering services:

- Erection/Demolition Planning
- Construction Stakeout
- Scaffolding Design
- Shoring Design
- Shop Drawing Review
- Value Engineering
- Permitting
- Shop Drawing Review

RANDOLPH
ENGINEERING

surveying





Land surveying is the core of most if not all civil engineering designs. We offer fully equipped survey crews managed by professional surveyors and supported by an experienced surveying technical staff.

The use of state of the art GPS surveying equipment along with traditional surveying equipment gives us the flexibility to meet the needs of our clients by providing them accurate and useful information as a stand alone service or as support for the over-all design of their project.

We offer the following surveying services:

- Topographic Mapping
- Boundary Surveys
- Alta Surveys
- Aerial Mapping Control
- Construction Stake-Out
- Lot Stake-Out
- Courthouse Research
- Elevation Certification

RANDOLPH
ENGINEERING

résumé

Roger K. Randolph, P.E., P.L.S.

Design Engineer/Project Manager

Experience and Qualifications:

Roger is an accomplished design engineer with more than 40 years of experience for a variety of civil, municipal, land development, structural and construction projects. His versatility, experience and wealth of knowledge provide valuable insight into possible pitfalls that may affect the success of any project. He is responsible for project management and design as well as leadership and mentoring of younger engineers on many projects in a range of disciplines.

His primary responsibilities include:

- Project Management
- Municipal Engineering
- Building Engineering
- Structural Engineering

Representative Project Experience:

- Verizon Sales Building Structural Design
- Union Carbide Building 14 Structural and Foundation Design
- FAA Control Metering Building - Colorado
- Toyota Engine Plant Building Expansions
- Parkline Manufacturing Facility Building and Site Design
- Central Distributing Warehouse and Office Facility Building and Site Design
- City of Hurricane Wastewater Treatment Plant Upgrade
- Charleston Town Center Parking Structure Inspections
- Rhone-Poulenc Process Gas Collection Facility Structural Design
- City of Hurricane Water Treatment Plant Upgrades
- Massey Coal Services Headquarters Wastewater Treatment Plant
- City of Vienna, WV Water Distribution System Modeling
- Poplar Fork Storm Water Analysis and Flood Mitigation
- City of Eleanor, WV Industrial Park Site Design
- Hobet Mining Warehouse and Office Facility Building Design
- Arch Mineral Bridge over Buffalo Creek
- Beaver Creek Pedestrian Bridge
- GEF Corporation Fiberglass Walkway Platform Bridges

Education:

B.S.C.E., Ohio University, 1967

Registration:

P.E. – West Virginia, OH, KY, IN & IL
P.L.S. – West Virginia

Professional Societies:

American Society of Civil Engineers
National Society of Professional Engineers

RANDOLPH
ENGINEERING

résumé

Aaron C. Randolph, P.E.

Design Engineer/Project Manager

Experience and Qualifications:

Aaron is an experienced civil engineer with a focus on civil, bridge, structural and construction engineering projects within the private and public sectors in West Virginia, Kentucky, Ohio and Alabama. His experience has encompassed short to medium length bridge design, two-lane highway design, four lane highway design as well as multi-story building design, foundation design and construction engineering. He is responsible for all bridge, structure and building design projects for various state and local agencies as well as private developers.

His primary responsibilities include:

- Project Management
- Civil Engineering
- Structural Engineering and Inspection
- Construction Engineering

Representative Project Experience:

- Mountain State University Health Building Structural and Foundations
- WVDOT District 2 Maintenance Facility Structural and Foundations
- Ahern and Associates Construction and Value Engineering
- Little General Store Headquarters Structural and Foundations
- FedEx Distribution Facility Structural and Foundations
- Pathways Office Building Structural and Foundations – KY
- Sleep Inn Motel Structural and Foundations
- Augusta Engineering Structural Foundations
- Jodie Bridge over Gauley River
- William S. Ritchie Bridge Inspection over Ohio River
- Marshall University Retaining Walls
- US Route 119 Reinforced Concrete Box Culvert Designs
- Toyota Motor Manufacturing of WV – Building and Foundations
- US Route 60 – Reinforced Concrete Box Culvert Design
- Peerless Brick and Block Company – Retaining Walls
- Berkeley County P.S.D. Wastewater Treatment Plant Structural Design
- Vinton Ohio Wastewater Treatment Plant Structural Design

Education:

B.S.C.E., West Virginia Institute of Technology, 1992

Registration:

P.E. – West Virginia

Certification:

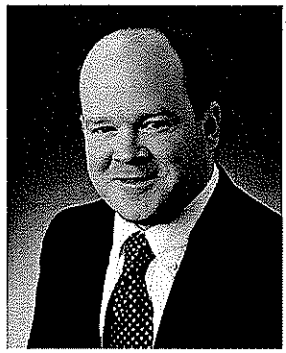
N.H.I. – Bridge Inspection Team Leader

Professional Societies:

American Society of Civil Engineers
(Former President of WV Section)

RANDOLPH
ENGINEERING

résumé



Jacob C. White, P.E.

Design Engineer/Project Manager

Experience and Qualifications:

Jacob is an experienced civil engineer with a focus on land development and highway projects with state and local municipalities as well as private developers in West Virginia and Virginia. His experience ranges from residential, commercial and industrial site development projects to large highway design projects. He is responsible for engineering, hydraulic analysis and permitting for all land development and highway projects.

His primary responsibilities include:

- Project Management
- Land Development Engineering
- Structural Engineering
- Hydraulic Analysis – Permitting
- Highway Engineering

Representative Project Experience:

- Massey Coal Services Headquarters Site Design
- Verizon Sales Building Site Design
- Tractor Supply Store Site Design (2)
- Advance Auto Store Site Design
- Raceland High School Gymnasium Structural Design
- Floyd County, KY Health Department Office Building Structural Design
- Castlenock Ridge Subdivision Storm Water Management
- Copart, Inc. Hurricane Facility Site and Permitting Design
- FedEx Distribution Center Storm Water Management
- Toyota Motor Manufacturing of WV – Storm Water Analysis
- Kanawha Valley Fine Jewelry Site Design
- Upton Construction Company – Mobile Home Park Site Design
- WVU Ruby Memorial Hospital Expansion Structural Analysis
- Culloden Bridge over CSX Railroad
- Blennerhassett Island Bridge over Ohio River – Hydraulic Analysis
- DOW Chemical Bridge Inspections over Kanawha River Back Channel
- Abingdon, VA Federal Courthouse Perimeter Security
- Mouldegraph Corporation Engine Lifting Jig Design

Education:

B.S.C.E., West Virginia Institute of Technology, 1997

Registration:

P.E. – West Virginia, Virginia

Certification:

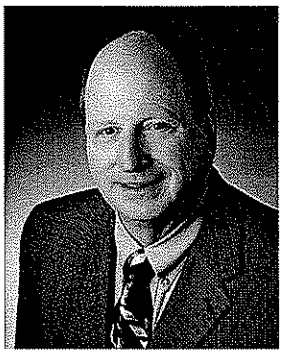
N.H.I. – Bridge Inspection Team Leader

Professional Societies:

American Society of Civil Engineers

RANDOLPH ENGINEERING

résumé



Donald R. Hayes, P.L.S

Surveyor/Project Manager

Experience and Qualifications:

Don is an experienced land surveyor with a focus on land development and municipal projects with local communities as well as private developers in West Virginia. His experience ranges from property surveys to residential, commercial and industrial site and utility design. He is responsible for the management of our surveying department as well as various development projects.

His primary responsibilities include:

- Project Management
- Surveying
- Land Development
- Construction Administration

Representative Project Experience:

- Castlenock Ridge Subdivision Design
- The Ridges Gated Community Design
- Toyota Engine Plant Facility Storm Water As-Built Survey
- Putnam County Parks & Recreation – Valley Park Expansion
- Bloomingdale Subdivision Design
- Pray Construction – McJunkin Warehouse Expansion Site Design
- City of Hurricane – Tackett's Branch Sewer Line Extension
- Massey Coal Services Headquarters Site Surveying
- Sable Point Townhouse Complex Site Design
- Rite Aid Corporation Site Designs (40)
- Westover Estates Subdivision Site Design
- Buckeye Community Hope Foundation ALTA Surveys (10)
- Standard Foods Facility Site Design
- Liberty Square Site Surveys and Permitting
- Cartee Land Development Company Site Design
- Dismas Charities, Inc Site Design
- WV Capitol Complex As-Built Survey
- Glen Oaks Subdivision Design
- Tri-State Hotels – Holiday Inn Express Site Design

Education:

A.S. West Virginia Institute of Technology, 1971

Registration:

P.L.S. – West Virginia

Professional Societies:

West Virginia Society of Land Surveyors

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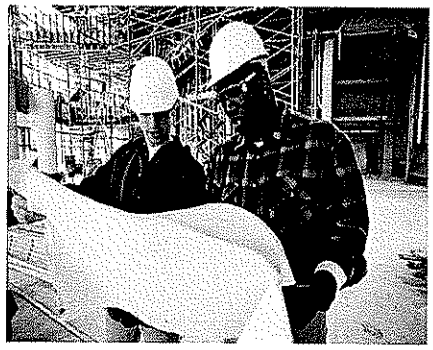
project

G&G Builders, Inc. – Massey Headquarters Site

Boone County, West Virginia



Client
G&G Builders, Inc.
500 Corporate Centre Drive
Scott Depot, West Virginia 25560

Contact
Mr. Gary Young
President
304.757.9196

Nature of Work
This project involved the study, design and preparation of contract plans and related documents for the construction of a new corporate headquarter office complex located along US Route 119 in Boone County, West Virginia.

The project scope included the design of an approximately 4 acre site that overlooks US Route 119 in Boone County and included preliminary and final grading plans, storm water design including detention, utility design within the site as well as a package treatment plant and forcemain effluent discharge line. Additional responsibilities included the design of a new entrance and turn lane on US Route 119 and an access road into and through the site. The site design included final paving and perking design, a helipad, decorative pond with fountain, security bollard system, walking track and secondary service road design.

Surveying services included additional mapping control and construction layout.

Key Personnel
Project Manager – Jacob C. White, P.E.

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p. 304.757.9217 f. 304.757.1029

project

Balanced Care Assisted Living Center

Putnam County, West Virginia

Client
Balanced Care Assisted Living
5021 Louisa Drive, Suite 200
Mechanicsburg, PA 17055

Contact
Mr. Tim Costello
717.796.6197

Nature of Work
The project involved the study design and preparation of contract documents for the site design including preliminary and final grading, parking layout, storm water management, lighting, pavement design, utility design and access road design as well as securing all necessary permits.

Building facility design included foundation design and analysis as well as the structural framing design.

Surveying services included horizontal and vertical control, topographic mapping for design purposes and construction stakeout.

Key Personnel
Project Manager – Roger K. Randolph, P.E.
Designer – Donald R. Hayes, P.L.S.

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project

The Ridges at Rabel Subdivision

Kanawha County, West Virginia

Client
AB Contracting, Inc.
5521 Ohio River Road
Point Pleasant, West Virginia, 25550

Contact
Mr. Allen Bell
304.546.5955

Nature of Work
The project involved the study, design and preparation of contract documents for a 194 unit gated community to be constructed on a 152 acre parcel.

Site design responsibilities included subdivision lot layout, grading, interior roadway design, pavement design, well as the design of the storm water system and approximately one-half mile of two-lane access road. Included in the access road design included the design of a prefabricated two-lane arch structure to span Alum Creek.

Utility design included 3 miles of sanitary force main and 2.3 miles of gravity sewer lines as well as twin 45,000 GPD packaged treatment plants. The water system consisted of 2.4 miles of 8", 6" and 2" water lines including a pump station and a 110,000 gal storage tank.

Additional design responsibilities included obtaining all permits including N.P.D.E.S. permitting for the site work as well U.S. Army Corp of Engineer permitting of the creek crossing and WV Health Department and Kanawha County Planning Commission permits.

Surveying services included horizontal and vertical control, topographic mapping for design purposes, survey plat development and construction stakeout.

Key Personnel
Project Manager – Roger K. Randolph, P.E.
Design Engineer – Jacob C. White, P.E.
Designer – Donald R. Hayes, P.L.S.

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project

Summit Point Subdivision

Putnam County, West Virginia

Client
Bill Morton Development
P.O. Box 20
Eleanor, West Virginia, 25070

Contact
Mr. Bill Morton
304.545.0673

Nature of Work
The project involved the study, design and preparation of contract documents for the site design of a 52 lot subdivision in Putnam County.

Site design responsibilities included subdivision lot layout, grading, interior roadway design, pavement design, well as the design of the storm water system and approximately one-half mile of two-lane access road. Utility design included sanitary sewer, water and gas.

Additional design responsibilities included obtaining all permits including N.P.D.E.S. permits, WV Department of Health permits and Putnam County Planning Commission permits.

Surveying services included topographic mapping for design purposes, survey plat development and construction stakeout.

Key Personnel
Project Manager – Roger K. Randolph, P.E.
Designer – Donald R. Hayes, P.L.S.

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project

The Fergus Companies – Tractor Supply

Randolph County, West Virginia

Client
Fergus Companies/Tractor Supply Corporation
8377 Green Meadows Drive, North
Suite A
Lewis Center, Ohio 43035

Contact
Mr. Bruce Shultz
Director of Retail Development
740.201.0500

Nature of Work
This project involved the study, design and preparation of contract plans and related documents for the development of a 4 acre site for a new Tractor Supply facility in Randolph County.

Design services included demolition plans, preliminary and final site grading and design, storm water design including detention pond, parking lot layout, utility design into the site as well as landscaping, lighting, permitting and final paving.

Additional design and surveying responsibilities included topographic mapping and the upgrade of an existing state owned access road to current design standards.

Key Personnel
Project Manager – Jacob C. White, P.E.

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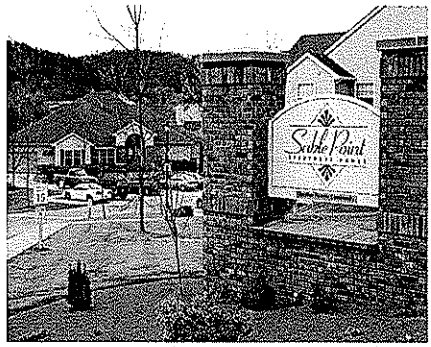
project

Sable Point Apartment Complex

Putnam County, West Virginia



Client
Picerne Development Corporation
247 Westmont Drive
Alamonte Springs, FL 32714

Contact
Mr. Dewayne Walker
Mr. Andrew Odd
407.722.0200

Nature of Work
The project involved the study, design and preparation of contract documents for a 148 unit apartment complex to be constructed on a 10 acre site in Putnam County, West Virginia.

Site design responsibilities included subdivision lot layout, preliminary and final site grading, interior roadway design, pavement design, well as the design of the storm water system including storm water detention as well as water and sanitary sewer design. Specific features included:

- 95,000 SF of asphalt paving
- 7,300 SF of concrete sidewalk
- 1,200 LF of 6" water line
- 2,300 LF of 8" sanitary sewer line

Additional design responsibilities included obtaining all permits including N.P.D.E.S. permits and WV Health Department and Putnam County Planning Commission permits.

Surveying services included topographic mapping for design purposes, survey plat development and construction stakeout

Key Personnel
Project Manager – Roger K. Randolph, P.E.
Designer – Donald R. Hayes, P.L.S.

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project

Toyota of West Virginia – Storm Water Analysis

Putnam County, West Virginia

Client
Toyota Motor Manufacturing, WV, Inc
1 Sugar Maple Lane
Buffalo, West Virginia 25033

Contact
Mr. Lyndon Jones
304.937.7299

Nature of Work
The goal of this project was to develop a baseline storm water analysis that would encompass the developed areas of the site including various plant expansions to be used in planning future plant expansions.

Project included an overall hydraulic study and analysis of the existing storm water system at the plant to determine the capacity for future expansion of the plant. Additionally, the project included an as-built field survey of the existing system and through the use of various stand-alone expansion drawings developed of a master set of storm water drawings.

Upon completion of this phase the scope of the project was expanded to include the design for increasing the capacity of the existing storm water detention pond to accommodate future plant expansion. A new detention pond was designed adjacent to the existing pond and provided and additional 392,000 C.F. of storage.

Key Personnel
Project Manager – Roger K. Randolph, P.E.
Design Engineer – Jacob C. White, P.E.

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project

Finney Branch Spillway

Kanawha County, West Virginia

Client
Hatfield Enterprises, Inc.
400 North Poplar Fork Road
Hurricane, West Virginia 25526

Contact
Mr. Robert Hatfield
304.552.1782

Nature of Work
Project included hydraulic analysis, channel design, spillway design, and permitting for an emergency spillway along Finney Branch in Dunbar, WV.

The project consisted of over 800' of channel design using the Army Corps of Engineers HEC-RAS stream modeling program. Scour and erosion countermeasures, designed and incorporated into the plans included rock rip-rap and various matting and vegetative linings. Regulatory agencies designated to oversee this project included the US Army Corp of Engineers and the West Virginia Department of Environmental Protection.

Surveying services included topographic field mapping for design purposes and construction layout.

Key Personnel
Project Manager – Roger K. Randolph, P.E.
Design Engineer – Jacob C. White, P.E.

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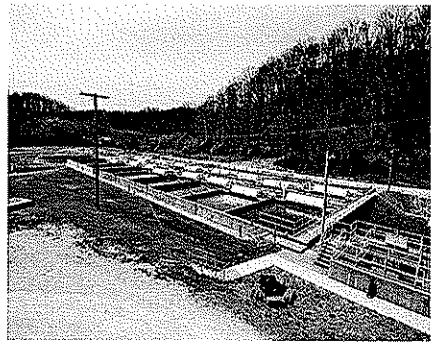
project

City of Hurricane WWTP Upgrade

Putnam County, West Virginia



Client
City of Hurricane
3255 Teays Valley Road
Hurricane, West Virginia 25526

Contact
Mr. Ben Newhouse, City Manager
304.562.5896

Nature of Work

In an effort to keep up with the current and anticipated future growth the City of Hurricane contracted with Randolph Engineering to provide renovation and upgrade design services of the existing vertical loop reactor waste water treatment plant. The project would increase the maximum capacity of the plant from 3 MGD to 4.5 MGD.

Included in the project scope were the addition of two new aeration trains, one duel chamber digester, one new clarifier with plans for a second one as well as a complete renovation of the pretreatment facility. In addition to the upgrade of these facilities, the project required new line work, electrical upgrades for the entire plant and general site upgrades.

Additional responsibilities involved the coordination with various review and funding agencies as well as elected officials and the general public.

Key Personnel

Project Manager – Roger K. Randolph, P.E.
Designers – Donald R. Hayes, P.L.S. & Max Dent

RANDOLPH ENGINEERING

4414 Teays Valley Rd.
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project

Miscellaneous Treatment Plants

Putnam County, West Virginia

Nature of Work

Clover Patch Subdivision
Putnam County, West Virginia

The developer of the Clover Patch Subdivision contracted with Randolph Engineering to provide design services for an 1100 LF extension of 6" sanitary lines and the expansion of an existing re-circulating packaged treatment plant - sand filter system from 4500 G.P.D. to 8400 G.P.D. to accommodate an 11 lot expansion of the residential subdivision.

City Holding Company
Putnam County, West Virginia

City Holding Company contracted with Randolph Engineering to provide design services for a 400 LF extension of 6" sanitary sewer line and the design of a 3000 G.P.D. extended aeration package treatment plant with 600 LF of 1 ½" force main to serve a renovated office building with 150 employees.

Smithfield Apartments
Wetzel County, West Virginia

The developers of the Smithfield Apartment Complex contracted with Randolph Engineering to provide design services for an additional 6000 G.P.D. duplex sand filter system to compliment the existing extended air packaged system and to provide tertiary treatment to meet Category III treatment requirements for their apartment complex in Wetzel County, WV.

Key Personnel

Project Manager – Roger K. Randolph, P.E.
Designers – Donald R. Hayes, P.L.S., Max Dent

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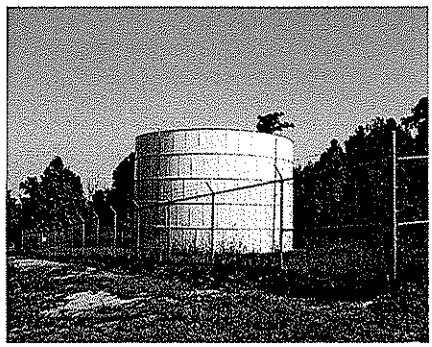
project

City of Hurricane Water System Upgrades

Putnam County, West Virginia



Client
City of Hurricane
3255 Teays Valley Road
Hurricane, West Virginia 25526

Contact
Mr. Ben Newhouse, City Manager
304.562.5896

Nature of Work
In an effort to keep up with the current and anticipated future growth, the City of Hurricane contracted with Randolph Engineering to provide renovation and upgrade design services for their existing water treatment plant and various system upgrades. This upgrade included an analysis of the existing facility building and foundations as well as the addition of a new lab, new filter and the development of both steel and concrete alternates for a new 50' diameter clarifier.

Other plant and system upgrades have included:

- Design of various walkways and platforms as well as multiple piping configurations within the plant.
- Design, Surveying and Construction Administration services for system upgrades consisting of more than 17,000 L.F. of 12" diameter water line and 4,700 L.F. of 10" diameter water line as well as the design of a 1,000,000 gallon water storage tank including the foundations.
- Preliminary engineering study for the development of a new water storage impoundment and more than 6000' of raw water line.

Surveying services for these projects have included topographic field mapping for design purposes and construction layout.

Additional responsibilities involved the coordination with various review, permitting and funding agencies as well as elected officials and the general public.

Key Personnel
Project Manager – Roger K. Randolph, P.E.
Designer – Max Dent

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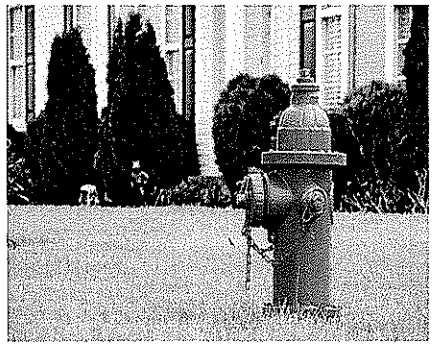
project

South Putnam PSD – Morrison Hollow Extension

Putnam County, West Virginia



Client
South Putnam PSD
Poplar Fork Road
Scott Depot, West Virginia 25560

Contact
Mr. Jason Henderson
304.757.6551

Nature of Work

In the early fall of 2005, South Putnam P.S.D. approached Randolph Engineering with a fast track project to extend water service to the Morrison Hollow and Ranch Lake Estates Subdivision. Due to the tight schedule, terrain and full foliage in the wooded areas of the project site the construction documents were developed on aerial photographs and printed in full color. This allowed us to save time that would have been consumed by traditional surveying. To further save time and expense, South Putnam P.S.D. utilized their own maintenance and construction crews to construct and install the water lines. The project was completed quickly and provided clean drinking water and fire service to more than 28 existing businesses and residences as well as 30 additional subdivision lots.

The project included the design and preparation of construction documents, specifications and construction administration services for a system upgrade that consisted of more than 5700 L.F. of 8" diameter water line and 3000 L.F. of 6" diameter water line as well as fire hydrants, valves, service line installation and 5 creek crossings.

Additional responsibilities included right-of-way research and right-of-way easements drawings and coordination with existing utility companies and various review and permitting agencies.

Surveying services included tie-down survey as well as construction stakeout.

Key Personnel
Project Manager – Roger K. Randolph, P.E.
Designer – Larry Stricker

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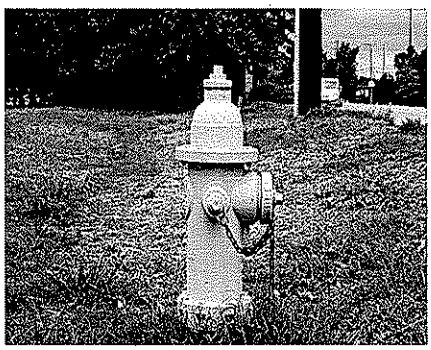
project

Tackett's Branch Water Extension

Putnam County, West Virginia



Client
City of Hurricane
3255 Teays Valley Road
Hurricane, West Virginia 25526

Contact
Ben Newhouse, City Manager
304.562.5896

Nature of Work
Project included the design and preparation of construction documents, specifications and construction administration services for a system upgrade that consisted of more than 5400 L.F. of 6" diameter water line and 2600 L.F. of 2" diameter water line as well as fire hydrants, valves, and service line installation.

Additional responsibilities included right-of-way easements and coordination with existing utility companies and various review, emergency and permitting agencies.

Surveying services included topographic field mapping for system design as well as construction stakeout.

Key Personnel
Project Manager – Roger K. Randolph, P.E.
Designer – Larry Stricker

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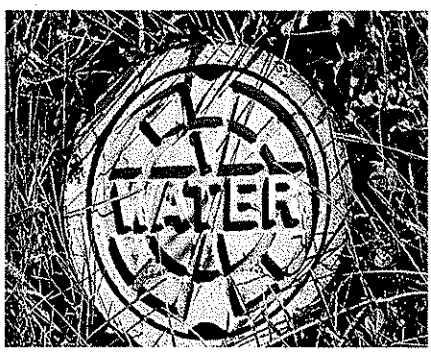
project

Putnam County Commission Water Upgrades

Putnam County, West Virginia



Client
Putnam County Commission
3389 Winfield Road
Winfield, West Virginia 25213

Contact
Mr. Gary Tillis , Commissioner
304.586-0201

Nature of Work
Projects included the design and preparation of construction documents, specifications and construction administration services for system upgrades in the following areas:

- 4,000 L.F. of 16" diameter water line extension in the Red House Area
- 9,800 L.F. of 16" diameter water line to serve the Eleanor Industrial Park.

Additional responsibilities included right-of-way easement plats and coordination with existing utility companies and various review and permitting agencies.

Surveying services included topographic field mapping for design purposes and construction layout.

Key Personnel
Project Manager – Roger K. Randolph, P.E.
Designer – Max Dent

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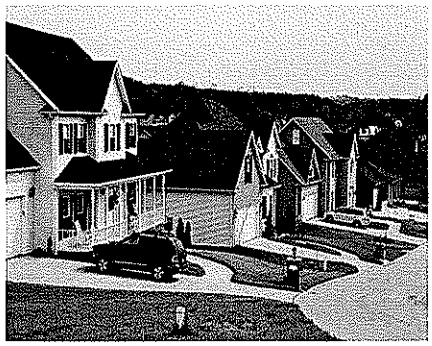
project

Vienna – Water System Model

Wood County, West Virginia



Client
Woolpert Consultants
St. Albans, West Virginia

Contact
Mr. Paul Amburgey, P.E.
304.722.1550

Nature of Work
Project involved the engineering study and development of a Cybernet Water Model for the existing and proposed expansion of the water distribution system of the city of Vienna, West Virginia. Working as sub-consultant for a nationally recognized engineering firm, we developed a model for the existing system that included the Vienna Mall area to be used to further study impacts of proposed and future developments within the system and to bring the system back to pre-contamination levels of service.

The model encompassed an existing gravity system that dates to the 1930's consisting of 6 water storage tanks with a total of 1.6 million gallons of storage, 14 pump stations and 12 water wells as well as distribution lines serving 5500 customers.

Responsibilities included obtaining current water consumption rates, pressure data at key locations, verify piping network and determining water distribution operational characteristics.

The results were incorporated into the current expansion design and allowed the City to plan for future expansion to developing areas within the City.

Key Personnel
Project Manager – Roger K. Randolph, P.E.

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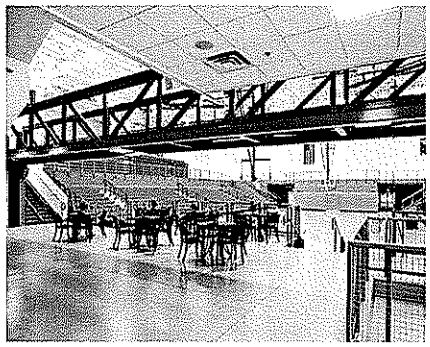
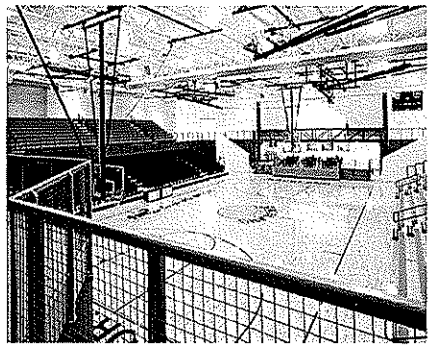
project

Raceland H.S. Gymnasium Addition

Raceland, Kentucky





Client
Edward Tucker Architects, Inc
916 Fifth Avenue, Suite 208
Huntington, West Virginia 25701

Contact
Edward Tucker, AIA
304.697.4990

Nature of Work

Project involved the design of the structural framing and foundation system for the addition of an all purpose gymnasium to the existing school building. The two story facility utilized an open web steel joist framing system supported on a combination of masonry walls and steel columns.

A unique and challenging feature of this project was the inclusion of a 60' indoor pedestrian bridge that was used to frame the entrance of the playing arena.

Additional responsibilities included shop drawing review and construction consultation.

Key Personnel
Project Manager – Aaron C. Randolph, P.E.
Design Engineer – Jacob C. White, P.E.

RANDOLPH ENGINEERING

4414 Teays Valley Rd.
Scott Depot, WV 25560
p. 304.757.9217 f. 304.757.1029

project

Floyd County Health Department

Floyd County, Kentucky

Client
Floyd County Health Department
Floyd County, Kentucky

Contact
Mr. Thursa Sloan
304.552.1782

Nature of Work
Project included structural design of 100' x 100' 3 story steel frame building to serve as the new health department building located in Floyd County, Kentucky.

The project consisted of design of steel frame building, foundations, and shop drawing review. A challenging issue on this project dealt with the complex hip roof design. This roof system required additional analysis and consideration with regards to connections, framing and the overall economic effect on the project budget. Design specifications included the Kentucky Building Code as well as various local codes and regulations.

Key Personnel
Project Manager – Jacob C. White, P.E.
Design Engineer – Jacob C. White, P.E
Aaron C. Randolph, P.E.

RANDOLPH ENGINEERING

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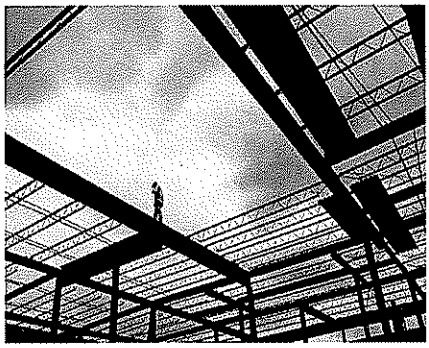
project

Mountain State University

Raliegh County, West Virginia



Client
J. Dan Snead & Associates
3049 Robert C. Byrd Drive
Beckley, West Virginia 25801

Contact
Dan Snead, AIA
304.252.6630

Nature of Work

We partnered with J. Dan Snead and Associates, a West Virginia founded architectural firm, to provide structural engineering services for a new college classroom and laboratory building located in Beckley, WV.

We provided all structural engineering for this multi-story, 33,000 square foot building including foundation design, a combination of masonry and steel framing design as well as roof framing and reinforced concrete slab design. Additional responsibilities included review and approval of shop and fabrication drawings.

Key Personnel
Project Manager – Aaron C. Randolph, P.E.

RANDOLPH ENGINEERING

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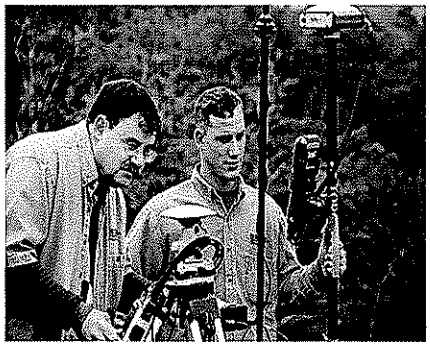
Scott Depot, WV 25560
p. 304.757.9217 f. 304.757.1029

project

ALTA Surveys – Buckeye Hope Foundation

Various Locations, West Virginia



Client
Star Title Agency, LLC
229 Huber Village Blvd., Suite 130
Westerville, Ohio 43081

Contact
Mr. Jim Saad
614.396.3296

Nature of Work
Star Title Agency contracted with Randolph Engineering to provide property research, field surveying and the development of detailed property maps and as-built drawings for ten specific apartment complex sites located in various counties in central West Virginia. These multi-family residential housing complexes ranged from 2 acres to 9 acres. Our scope of work included locating all improvements to the site including buildings, parking areas, sidewalks, utilities and recreational facilities.

Key Personnel
Project Manager – Donald R. Hayes, P.L.S.

RANDOLPH ENGINEERING

4414 Teays Valley Rd.
Scott Depot, WV 25560
p. 304.757.9217 f. 304.757.1029

project

Capitol Complex As-Built Survey

Kanawha County, West Virginia

Client
ZDS Design/Consulting Services, Inc
91 Smiley Drive
St. Albans, West Virginia 25177

Contact
Mr. Todd A. Zachwieja, P.E.
304.755.0075

Nature of Work
ZDS contracted with Randolph Engineering to provide as-built field surveys, verify contour mapping, provide finished floor elevations for the basements and first floors and develop detailed maps for a storm water improvement project within the Capitol Complex campus in Charleston.

Our scope of work included locating all improvements in the vicinity of Buildings 1, 3, 4, 5, and 7 including building footprints, sidewalks, utilities as well as trees, architectural features and monuments.

Key Personnel
Project Manager – Donald R. Hayes, P.L.S.

RANDOLPH ENGINEERING

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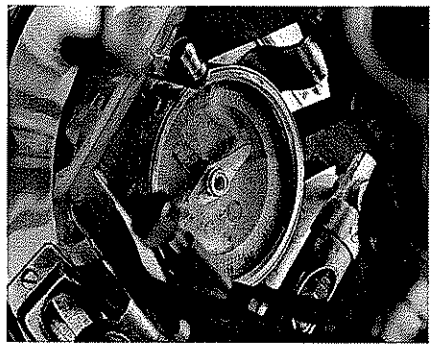
project

Pedestrian Trail and Bridge

Nicholas County, West Virginia



Client
Cranberry Tri-River Rail/Trail Association
1900 Middletown
Richwood, WV 26261

Contact
Mr. Bruce Donaldson
304.846.2862

Nature of Work
The Cranberry Tri-River Rail/Trail Association partnered with Randolph Engineering to provide a vital link to the expanding rail/trail system along the North Fork of the Cherry River.

The project consists of the design for a single span 120' pre-manufactured pedestrian bridge and associated trail approaches. Additional aspects of the project included topographic mapping, hydraulic analysis and construction administration. The project presented a very difficult challenge in that there was no vehicle access to the preferred site. The solution to the challenge was to tram materials and equipment in from a low water crossing located upstream of the bridge site via a temporary construction access road.

The project is currently on-hold while funding is secured to complete the construction.

Key Personnel
Project Manager – Aaron C. Randolph, P.E.
Design Engineer – Jacob C. White, P.E.

RANDOLPH ENGINEERING

4414 Teays Valley Rd.
Scott Depot, WV 25560
p. 304.757.9217 f. 304.757.1029

project

Valley Park Expansion

Putnam County, West Virginia

Client
Putnam County Parks & Recreation Commission
#1 Valley Drive
Hurricane, West Virginia 26261

Contact
Mr. Cordie Hudkins
304.562.0518

Nature of Work
The Putnam County Parks and Recreation Commission partnered with Randolph Engineering to develop plans for the expansion of Valley Park. The first phase of this project involved the initial study, design and preparation of contract plans and related documents for the expansion of the Park to include a recreational trail system.

The project scope included the design of recreational trails proposed for use by visitors and outdoor enthusiasts. Approximately one mile of trails were designed and constructed for this project. The trail system included multiple pedestrian bridges, trail lighting, benches and landscaping.

The second phase of the original project included an expansion of the original trail system by approximately one-half of a mile including four bridges as well as an expansion of the park to include a multi-purpose athletic field, multiple picnic shelters as well as one large fully equipped shelter. In addition to these facilities the project included various game areas, a playground and landscaping.

General site design requirements included parking areas and lighting as well as water distribution and sanitary sewer infrastructure.

Surveying services included, boundary surveys, field mapping for design purposes and construction layout.

Key Personnel
Project Manager – Donald R. Hayes, P.L.S.

RANDOLPH ENGINEERING

4414 Teays Valley Rd.
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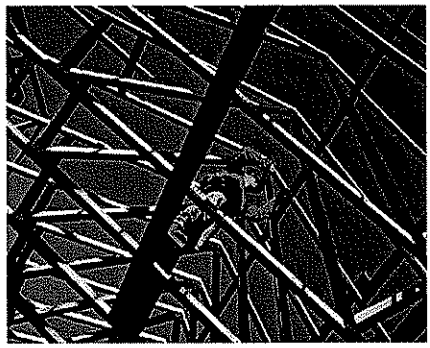
p. 304.757.9217 f. 304.757.1029

project

Little General Store, Inc. Corporate HQ

Raliegh County, West Virginia



Client
J. Dan Snead & Associates
3049 Robert C. Byrd Drive
Beckley, West Virginia 25801

Contact
Dan Snead, AIA
304.252.6630

Nature of Work

We partnered with J. Dan Snead and Associates, a West Virginia founded architectural firm, to provide structural engineering services for a new office building located in Beckley, WV.

We provided foundation engineering, reinforced concrete design, framing design and wood truss design for this new single story, 9,000 square foot headquarters for Little General Store, Inc.

Key Personnel
Project Manager – Aaron C. Randolph, P.E.

RANDOLPH ENGINEERING

4414 Teays Valley Rd.
Scott Depot, WV 25560
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section 4

EDWARD TUCKER ARCHITECTS, INC PROFILE

firm profile

Edward Tucker
ARCHITECTS, INC.

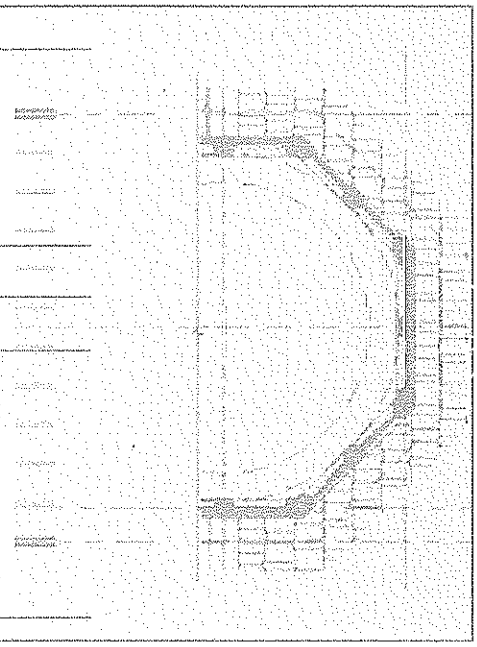
Edward Tucker Architects, Inc. provides full architectural services, including master planning, site analysis, programming, architecture and design, addition/alteration/renovation/adaptive reuse, space planning, surveys and studies and interior design. The firm has experience in a large range of project types, including healthcare, academic, industrial, commercial, religious, preservation and public projects.

Our reputation has evolved by delivering quality design through talented, highly capable and professional staff. Most of our work is derived from relationships with repeat clients who count on our consistent levels of service and added value. Our work is varied, and not of a single architectural style. This reflects our philosophy that every project is unique and deserves a customized, innovative design. By listening carefully to our clients needs we are able to create a functional and beautiful solution.

Founded in 1996 by Edward Tucker, AIA, the firm has grown to its current size of 4 registered Architects, 2 Architectural Interns, 1 Interior Designer and 1 office manager. This firm structure means that every person involved in a project has the education and experience needed to solve problems and create viable solutions.

We enjoy the challenge of new project types and select design team members who can provide the specific expertise needed. We maintain leadership throughout the project, coordinating the overarching need for a coherent solution. Our firm has also built a network of excellent engineering consultants in the fields of site/civil design, structural design and mechanical, plumbing and electrical design.

PRINCIPAL:	Edward W. Tucker, AIA
PROJECT MANAGERS:	Walter L. Wilkes, AIA Nathan Jon Randolph, AIA Phoebe Patton Randolph, AIA J.D. Maynard, Associate AIA Josh M. Dygert, Associate AIA
INTERIOR DESIGN:	Heidi Campbell
OFFICE MANAGER:	Lisa Black
CONTACT INFORMATION:	Edward W. Tucker, AIA Edward Tucker Architects, Inc. 916 Fifth Avenue, Suite 208 Huntington, West Virginia 25701 (304) 697.4990 voice (304) 697.4991 fax eta@etarch.com



firm profile : : CORE VALUES

CONSISTENT LEADERSHIP: SAME PROJECT TEAM FROM BEGINNING TO END. Working at other firms, many of us watched the quality of a project suffer when project architects and key team members were pulled on and off of jobs.

At ETA, once a leadership team is established, it stays in place throughout the project, from pre-design to construction to occupancy. Staff may be added should project needs evolve, but the core team of Principal and Project Architect will not change. This continuity not only ensures good communication of key information, but best maintains the project team's original vision and intellectual investment from design through construction.

SPECIALIZED APPROACH: NO TWO PROJECTS - OR CLIENTS - ARE ALIKE. When you hear that a firm has designed dozens of banks, schools, clinics, etc. it often means that the same design has been used dozens of times - with variations in the "wrapping" or floor plans that are flipped or mirrored.

ETA believes that each project requires a unique, tailored response. Assumptions cannot be made without a thorough examination of a project's site and context, budget, and all of the other client needs and parameters that together define the work to be done. Owner/Design Team study of design exemplars, research and travel to recently completed facilities are common practices to ensure use of best practices within a project type. This pre-design work also helps the Owner and Design Team establish a common language for desirable outcomes that are unique to the project.

AIM WELL. Too many projects follow an all too familiar pattern of "Ready – Fire – Aim."

Alignment of goals, planning, budgeting, uncovering problems to be solved, prioritizing and scheduling are all parts of what must take place in the "aiming" process of project development. A well aimed design is much more likely to hit the target – and the target is different for each project. This is why ETA works diligently with our client's key people, listening carefully to reach a consensus of what the target is.

DOING THE RIGHT THING, ASKING THE RIGHT QUESTIONS. If the Architect is doing all of the talking, how can they learn about you and your project?

ETA listens actively, investigates and obtains objective data, then comes back with fair and insightful comments, answers or solutions. This is accomplished through intensive pre-design sessions with clients and their stakeholders. We resist saying why we can't do something until all options are explored; we look for ways to do the right thing, crafting an architectural response that not only solves functional parameters, but will truly create a lasting sense of identity and a source of pride for all.

firm profile : : CORE VALUES

MOTIVATING PEOPLE FOR THE LONG TERM. Many large design firms that specialize in a few buildings types constantly fight staff turnover due to dissatisfaction with repetitive work.

ETA's rate of employee turnover is extremely low, due in part to the fulfillment that comes with new design experiences. Rather than seek one dimensional staff with extensive experience in limited areas, we hire and develop people to be information gatherers, critical thinkers and designers that are open to learning new concepts and techniques. While this approach has given ETA extensive experience in some project types, we enjoy and thrive on new challenges. We seek clients that want - and deserve - a unique project identity.

TEAMING FLEXIBILITY. Alignment of appropriate expertise.

We realize that the same group of architects, engineers and consultants may not be the best team for every project. We understand that some projects require the benefit of consultants with experience in specific project types. By not hiring in-house engineers, we are not obliged to utilize staff to be sure they stay busy; rather, we carefully select the appropriate engineering and consultant team based on a project's size, type, complexity and other project specific factors.

OPEN COMMUNICATION. "For the company directory, please dial ... "

We strive to ensure that a real person will always take your call. We recognize the need to be responsive, accessible and attentive to our clients. Utilizing the benefits of a single office filled with highly competent professionals, we are able to offer timely and relevant responses to our clients' needs at all times. ETA's principal, Edward Tucker, is always available to answer questions, listen to concerns and to discuss projects. Because he is involved in every project that comes into the office, he is in a position to respond to each concern in a meaningful way.

ETA leads design review meetings with the client as well as meeting with key user groups to identify their needs. Following design reviews, we issue a written record of decisions made to all team members to ensure that all parties stay on the same page, thus building a history of decisions that guide and affect the project outcome.

RESPONSIBLE COORDINATION. In order to "get it right the first time", each team member must feel accountable to everyone else, not just their assignment.

ETA's work culture is much more "flat" than typical design firm hierarchies. While each design team member is responsible for specific components of work, all team members are responsible to each other for positive project outcomes. Through close communication and proven work processes, drawings and specifications are developed carefully with our consultant team to create a cohesive design with systems, structure and site elements blending seamlessly and closely coordinated. ETA's office configuration encourages collaboration at all levels, from exploring design solutions to detailing construction documents.

firm profile : : CORE VALUES

BUDGET, QUALITY LEVEL AND SCHEDULE. Will the project come in on budget?

ETA works with clients to define realistic funding and budget realities regarding three key components: Budget, Quality Level and Schedule. Using past project histories, state and national data bases, we develop a construction estimate at project inception and update it throughout the life of the job. We make sure clients understand construction vs. total project budgets as well. In the traditional project delivery method of design-bid-build, our data-based records of actual construction costs help us refine the Construction Documents to meet the target budget. We also work closely with construction contractor and subcontractor resources to stay in tune with bidding and cost climate forecasts in the project's geographical area.

CONSTRUCTION: STAYING ON TARGET TO THE END. How does the Architect carry out the design during construction?

ETA believes that the Project Architect should always administer construction phase duties. The architect who completed the drawings is intimately familiar with the project's overall goals, the client's particular interests and the design documents' intent. We believe this field experience ultimately makes us better designers. On-site project meetings are typically held every two weeks to monitor progress, address questions and solve problems. We make sure that these meetings are documented with detailed meeting minutes that include action items identifying parties responsible for timely issue resolution.

We believe that all of our Core Values contribute to a positive construction experience and outcome, but there are specific ETA protocols for Construction Administration that have earned the respect of both our clients and the construction community. We routinely hold our errors and omissions to less than one percent (< 1%) and we do an excellent job working with contractors to hold down costs on the projects we manage. Through the years we have realized that cost changes and schedule creep are minimized through the following ten practices - many of which take place before the construction begins:

• **Project Scope, Schedule and Budget** are realistically established at the outset of the project.

• We follow the **Drawing Notation** mantra of: "Say it once, say it correctly, say it in the proper place" through coordinated general, reference and sheet specific key notes. **Specifications** are edited to the needs of each project vs. listing every conceivable system, which only confuses estimators and trades.

• **Project Architects** complete the drawings without drafting technicians. This results in a high level of technical competence, accountability and an efficient path to well coordinated drawings.

• **Drawing Coordination and Quality Control** take place throughout the design process, but are finalized at the end of the construction documents phase by a highly experienced architect who is also not the project's architect. This "fresh set of eyes" is invaluable prior to issuing drawings for bids.

• **Bid Periods** are carefully timed in an attempt to achieve the most favorable bidding experience.

• **Communicating** often with the contractor's superintendent and project manager. This means responding to telephone calls, e-mails and RFI's with a schedule of action within 24 hours or less.

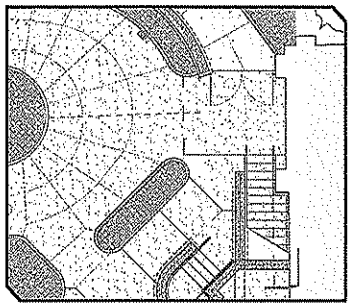
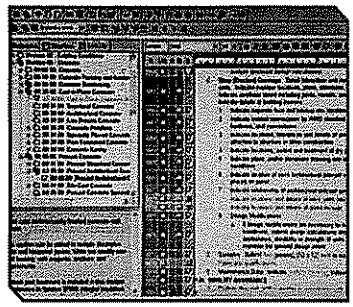
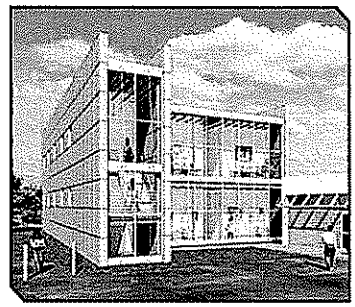
• We require the contractor's updated **Construction Schedule** and **Work Plan** at each meeting. We treat these as working documents to be used by the contractor's personnel, not just pieces of paper.

• **Conducting Pre-Construction Meetings** with all major subcontractors present. Customary procedures are discussed and established, but a detailed review of the Work Plan and critical dates are also laid out to achieve **buy-in and committment** to the Owner's and Contractor's overall goals.

• **Requiring preparation** of **Contractor's Submittal Schedule** at the beginning of construction. Staff time for critical path submittals are thereby assured for processing within 2 weeks or less.

• **Certifying Payment Applications** through timely, first hand visits to the site and ongoing discussions of the project's progress with the superintendent, project manager and client representative.

firm profile : : TECHNOLOGY

SOFTWARE

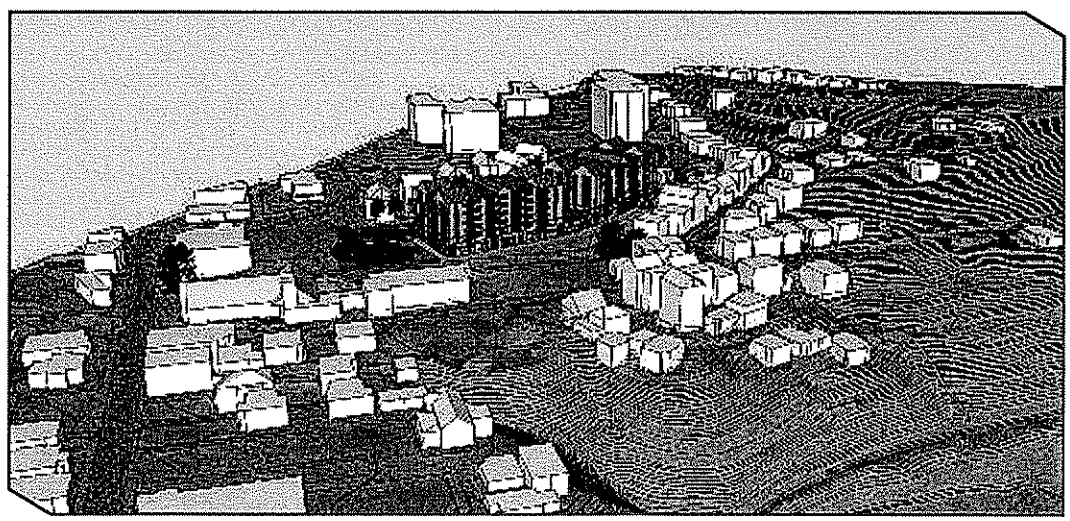
ETA seeks to utilize up to date and reliable technological resources that are appropriate for our firm, our consultants, clients, and each project's application needs. Digital software protocols are ever more important for communications with consultants, contractors and owners.

Architectural/Engineering industry software most commonly utilized includes the following:

- Drafting Software: AutoCAD Architectural Desktop
- Specifications: BSD (Building Systems Design) Spec Link+
- Cost Estimating: BSD Cost Link
- Graphic Presentations and Communications: Adobe Creative Suite Premium
- 3-D Modeling and Graphics: Sketch Up Pro
- Project Management: ArchiOffice

NETWORK

We maintain a network server, multiple CAD workstations, large format color printer, scanner and copier. Our server has dual backup including removable hard drive and an off site backup in the case that disaster recovery is needed. Our network is protected by a Cisco PIX Firewall 501 and Symantec Antivirus. We also maintain an 'FTP' site which allows us to transfer large files to our clients and consultants.



firm profile : : COMMUNITY INVOLVEMENT

Our offices are located in the heart of downtown Huntington, West Virginia. Our staff consists of professionals who choose to be a part of a thriving architectural practice that makes a positive impact in the community. As stakeholders in a smaller city community, this opportunity motivates us to strive for personal and corporate success of the firm and community. Employees are involved at local and state levels to build and promote economic, social and leadership capital in the community.

Edward Tucker, Principal

CURRENT POSITIONS:

- Director, Region of the Virginias, American Institute of Architects (AIA)
- Board of Directors, Huntington Symphony Orchestra
- Huntington Rotary Club

PAST POSITIONS:

- Board Member, Tri-State Council - Boy Scouts of America
- Chair of Church Council, Beverly Hills United Methodist Church
- City of Huntington's Historical Commission
- Board of Directors, Huntington's Habitat for Humanity
- Chair, City of Huntington Board of Code Appeals
- President, American Institute of Architects (AIA) West Virginia Chapter

Wally Wilkes, Architect

CURRENT POSITIONS:

- Board Member, WV EXPO

PAST POSITIONS:

- Treasurer and Director, AIA West Virginia

Nate Randolph, Architect

CURRENT POSITIONS:

- Chair, Community Development Group - Young Professionals Committee
- Huntington Regional Chamber of Commerce
- Councilman, Huntington City Council - District 4

Phoebe Patton Randolph, Project Manager

CURRENT POSITIONS:

- Chair, AIA West Virginia Livable Communities Committee
- Co-Chair, Create Huntington - Citizen Engagement Committee
- Member, Generation West Virginia - Economic Development Committee
- Member, Accessiblility Committee for the Huntington Museum of Art

Lisa Black, Office Manager

CURRENT POSITIONS:

- Member, Musical Arts Guild Board of Directors

firm profile : : HERITAGE

EDWARD TUCKER ARCHITECTS, INC. IS FORTUNATE TO CONTINUE A RICH HERITAGE OF PROMINENT ARCHITECTS FROM HUNTINGTON, WEST VIRGINIA.

Albert F. Tucker

Edward's grandfather, Albert F. Tucker, became an architect "the hard way". His rural east Tennessee education ended in the eighth grade, but he gained experience beginning as a carpenter and later as a foreman and building supervisor in the early development of the Eastern Kentucky coalfields. He joined the firm of Meanor & Handloser shortly after moving to Huntington in 1917. His association with the firm lasted until 1938 when he obtained licensure and opened his own office. He became known throughout West Virginia and neighboring states where more than 150 congregations of many denominations called upon him to design and supervise construction of their churches and church schools. His contributions were recognized in 1966 when he received an Honorary Doctor of Laws Degree from West Virginia Wesleyan College. His son and Edward's uncle James R. Tucker continued the firm until his retirement from active practice.

Levi Johnson Dean

Born in 1878 in Frametown, West Virginia, Levi Johnson Dean studied architecture by completing a Scranton Pennsylvania International Correspondence School course. He began practicing architecture in Huntington in 1910. In 1921, the state architectural registration law was enacted and he became the nineteenth architect to be licensed in the state of West Virginia. His legacy includes some of the area's most beautiful architectural works from the area's "boom" years of the 1920's - churches, county courthouses, residences and many commercial buildings such as those on Huntington's Fourth Avenue known for their terra cotta and metalwork trimmed facades. Two private residences designed by Levi Dean are listed on the National Register of Historic Places.

S. Brooks Dean & E. Keith Dean

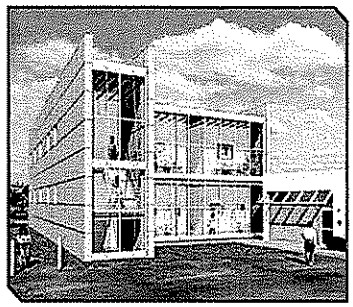
Two of Levi Dean's sons, S. Brooks Dean and E. Keith Dean formed Dean and Dean, Inc. Architects in 1956, in an effort to carry on their father's legacy after his death. Over the next 30 years the firm grew to become the premier architectural firm of Huntington, designing buildings for the area's prominent educational and public institutions. Dean and Dean, Inc. Architects designed many of Huntington's most significant buildings, including seven major commissions at Marshall University and scores of public schools, libraries, banks, medical facilities and commercial buildings. In 1996 the firm was sold to Edward Tucker, with the hopes of continuing the architectural legacy started by Levi Dean nearly a century before.

Edward W. Tucker

Growing up in Huntington, West Virginia, Edward Wells Tucker began working with James R. Tucker, AIA and Robert L. Brown, AIA at the age of 16. Graduating with high honors from the University of Tennessee in 1982, he moved to Nashville, Tennessee to continue his architectural internship, gaining licensure in 1986. Between 1982 and 1990, he gained a wealth of experience in many building types, serving as Project Architect of a high rise office and parking structure, university renovation projects, child care centers, church additions, office buildings, industrial buildings, parking structures and state park facilities. In 1990, he joined Vanderbilt University as Staff Architect - Campus Planning, Medical Center. In the following five years, he managed and/or designed projects with a construction value of $40 million. This period of representing the institution's interests gives him unique insight into his client's concerns that few architects share.

After nearly twelve years in Nashville, Edward returned to Huntington in February 1995 to begin his own firm. This was accomplished through the acquisition and renewal of Dean and Dean, Inc. Architects. On August 1, 1996, the firm of Edward Tucker, Architect officially opened to continue a lineage that began almost ninety years ago. Since that time, the firm has grown to become Edward Tucker Architects, Inc., with a focus on healthcare, academic, industrial, commercial and public projects.

firm profile : : FIRM EXPERIENCE


Healthcare

CABELL HUNTINGTON HOSPITAL
Huntington, West Virginia

- J. Robert Prichard Dialysis Center
- Emergency Room Expansion and Renovation
- In Vitro Fertilization Suite
- Radiology - Magnetic Resonance Imaging (MRI) Suite
- Radiology - Interventional Suite

GENESIS HEATHCARE CORPORATION
Huntington, West Virginia

- Renovations to the Heritage Center (Senior Care Facility)

ASSOCIATED CARDIOLOGY, INC.
Charleston, West Virginia

- Physicians Office Building

HEALTHSOUTH CORPORATION

- Hospital Addition Huntington, West Virginia
- Rehabilitation Center Bluefield, West Virginia

Higher Education

MARSHALL UNIVERSITY

Huntington, West Virginia

- Joan C. Edwards School of Medicine – Erma Ora Byrd Clinical Center
- Forensic Science Center - Renovation and Expansion Phases 1-6

K-12 Academic Experience

RACELAND-WORTHINGTON HIGH SCHOOL

Raceland, Kentucky

- Cultural Arts and Athletic Complex – Gymnasium Addition
- Cultural Arts and Athletic Complex – Auditorium Addition

ST. JOSEPH ELEMENTARY & MIDDLE SCHOOL
Huntington, West Virginia

Industrial

ALCON MANUFACTURING, LTD.
Huntington, West Virginia

- Facility Expansion and Renovations Phases 1-3

ROBERT C. BYRD INSTITUTE
Huntington, West Virginia

- Center for Flexible Manufacturing

FED-EX, INC.
Huntington, West Virginia

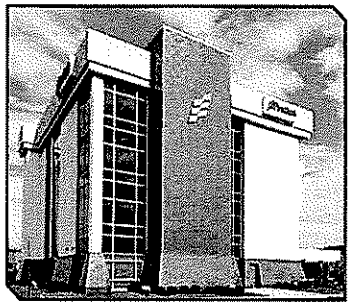
- Distribution Center at the Tri-State Regional Airport

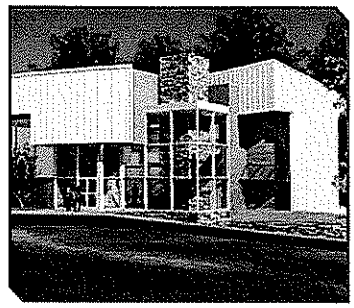
Commercial

RIVER CITY PROPERTIES
Huntington, West Virginia

- Tenant Renovations for Smith Barney
- Office Building for Merrill Lynch
- Interior Renovations for the Veterans Administration Regional Office

firm profile : : FIRM EXPERIENCE





Commercial

DARCO INTERNATIONAL
Huntington, West Virginia

- New Office Building

FIRST BANK OF CHARLESTON
Charleston, West Virginia

- New Bank Building

UNLIMITED FUTURE, INC.
Huntington, West Virginia

- Phase Two of Mountain Bounty Kitchen, a Shared Use Commercial Kitchen Facility

I.B.E.W. LOCAL #317
Huntington, West Virginia

- New Union Hall and Credit Union

NORTHWESTERN MUTUAL FINANCIAL GROUP
Charleston, West Virginia

- Tenant Renovations to the Embleton Building

CHILI WILLI'S MEXICAN CANTINA
Huntington, West Virginia

- Addition and Renovations for New Restaurant Location

HUNTINGTON FEDERAL SAVINGS BANK
Huntington, West Virginia

- Branch Banking Facility, Huntington Mall
- Branch Banking Facility, East Hills

Religious

ROMAN CATHOLIC DIOCESE OF WHEELING-CHARLESTON

- New Church Building for Nativity of Our Lord Catholic Parish
  Wayne, West Virginia
- Renovations to the Hunt Building
  Charleston, West Virginia

HOLY SPIRIT ORTHODOX CHURCH
Huntington, West Virginia

- New Church and Social Hall

JOHNSON MEMORIAL UNITED METHODIST CHURCH
Huntington, West Virginia

- Memorial Garden and Renovations to Social Hall

OUR LADY OF FATIMA CATHOLIC CHURCH
Huntington, West Virginia

- Renovations

26TH STREET CHURCH OF CHRIST
Huntington, West Virginia

- Sanctuary Addition

Public

CABELL COUNTY COMMISSION
Huntington, West Virginia

- EMS Station No. 2
- EMS Station No. 6

CABELL COUNTY PUBLIC LIBRARY
Huntington, West Virginia

- Salt Rock Public Library

project team : : EDWARD W. TUCKER, AIA

Edward W. Tucker, AIA

Edward Tucker Architects, Inc. Principal

project team

Edward W. Tucker, AIA, is president and principal of Edward Tucker Architects, Inc. Edward manages the firm's overall operations with a focus on professional leadership, design and quality assurance. His project experience includes healthcare, education, research labs/clean rooms, industrial, religious, commercial, historic, and public architecture.

Originally from Huntington, West Virginia, Edward graduated with high honors from the University of Tennessee's Bachelor of Architecture program in 1982. From 1983 to 1995, he worked in Nashville, TN, gaining licensure in 1986. Working with two firms during this time, his responsibilities grew with an emphasis on project management, eventually joining Campus Planning at Vanderbilt University Medical Center. While at Vanderbilt, he was responsible for constructed projects in the Medical Center totaling over 40 million dollars. He also completed the Vanderbilt Leadership Development Forum in 1994.

In 1995, he returned to Huntington to establish Edward Tucker Architects, Inc. Having acquired Dean and Dean Architects, the renewed firm continued their legacy of earning the trust of public, private and community related clients in the Tri-State region. Edward has established the firm as a preferred provider of architectural services in the area; illustrated by repeat clientele such as Marshall University, Cabell Huntington Hospital, Marshall University's Joan C. Edwards School of Medicine, Alcon Laboratories, the Greater Huntington Parks and Recreation District, River City Properties, the Diocese of Wheeling-Charleston, Cabell County Public Library and many area churches.

In 2007, Edward was elected to a three-year term on the American Institute of Architects (AIA) National Board as the Region of the Virginias Director, having previously served as President and Director of the West Virginia Chapter of the AIA. He currently serves on the Huntington Symphony Orchestra Board of Directors. Past civic involvement includes the Tri-State Council - Boy Scouts of America, Beverly Hills United Methodist Church, City of Huntington Historical Commission, Huntington's Habitat for Humanity, Chair of the City of Huntington Board of Code Appeals, Huntington Rotary Club, and Stella Fuller Settlement. Edward resides in Huntington with his wife Lynn. Their son Christopher is an undergraduate student at Case Western Reserve University.

EDUCATION

- **University of Tennessee** – Knoxville, Tennessee
  Bachelor of Architecture, 1982 Summa Cum Laude
- **Denmark's International Studies** – Copenhagen, Denmark
  Architecture and Urban Design, Semester Study 1981

PROFESSIONAL EXPERIENCE

- **Vanderbilt University Campus Planning**
  Nashville, TN Staff Architect 1990 - 1995
- **Adkisson Harrison & Rick Architects, Inc.**
  Nashville, TN Architect 1986 - 1990
- **Barge Waggoner Sumner & Cannon**
  Nashville, TN Architectural Intern 1983 - 1986

PROFESSIONAL AFFILIATIONS

- **American Institute of Architects (AIA) - Director, Region of the Virginias, 2008 - 2010**
- **AIA West Virginia Chapter**
  - President, Director-Past President, VP-President Elect, Director, 1998 - 2005

REGISTRATIONS

- **National Council of Architectural Registration Boards**
  - Tennessee - West Virginia - Kentucky - Georgia - Ohio

CIVIC AFFILIATIONS

- **Huntington Symphony Orchestra**, Board of Directors 2003 - 2009
- **Rotary Club of Huntington** – Director 2003 - 2005
- **Tri-State Council Boy Scouts of America, Executive Board** 1999 - 2007
- **City of Huntington, Building Code Board of Appeals**, Chair 1997-1999
- **City of Huntington**, Historic Commission 1997-1999

project team : : NATHAN JON RANDOLPH, AIA

Nathan Jon Randolph, AIA

Edward Tucker
Architects, Inc.
Project Architect

Originally from Scott Depot, West Virginia, Nathan was raised in a construction and engineering oriented family. In keeping with this tradition, he chose architecture as a career path, graduating with high honors from the University of Tennessee with a Bachelor of Architecture degree in 1998. By the time that Nathan had completed his education at Tennessee, he had collected every honor and won all school sponsored architecture design competitions offered by UT's College of Architecture and Design.

After graduation, Nathan worked in Pittsburgh, Pennsylvania for a year on high profile projects such as the Aquarium at the Pittsburgh Zoo and the Jimmy Stewart Museum and Theater. He then spent a year working In Lewisburg, West Virginia on theater designs for Marquee Cinemas. In January 2000, he joined Edward Tucker Architects, Inc. and has since developed many successful projects and client relationships.

Nathan has diverse design experience in the commercial, industrial, pharmaceutical, health care, collegiate, and residential markets. Nathan resides in Ona, West Virginia and is a parishioner at Saint Joseph Catholic Church.

EDUCATION

- **University of Tennessee** – Knoxville, TN
  Bachelor of Architecture, 1998 Cum Laude
  - Pella Design Award – 1996
  - East Tennessee AIA Integration Award – 1997
  - Tau Sigma Delta Bronze Medal Senior Thesis – 1998
  - Faculty Design Award Senior Thesis – 1998
  - Dean's Letter of Excellence Senior Thesis – 1998
- **Poland International Study** – Krakow, Poland
  Architecture and Urban Design, Spring Semester 1997

EMPLOYMENT

- **Daniel Lucas Hart Architect,** Lewisburg, WV
  Architectural Intern 1999 - 2000
- **Indovina & Associates Architects, Inc.,** Pittsburgh, PA
  Architectural Intern 1998 - 1999

PROFESSIONAL EXPERIENCE

- **Alcon Manufacturing,** Huntington, WV
  - **Phase 1** – Clean Room Expansion (construction completed – 2003)
  - **Phase 2** – Production Expansion (construction completed – 2005)
  - **Phase 3** – Plant Rehabilitation (construction scheduled to be completed – 2007)
- **Cabell Huntington Hospital Pritchard Dialysis Center**
  Huntington, WV (construction completed – 2002)
- **Douglass Center** – Historic Restoration/Rehabilitation of Douglass High School
  Huntington, WV (construction completed – 2002)
- **Holy Spirit Orthodox Church**
  Huntington, WV (construction completed – 2003)
- **Marshall University Forensic Science Center Phases 1-6**
  Huntington, WV (construction completed – 2007)
- **Tabernacle Baptist Church**
  Vidalia, GA (construction completed – 2006)

PROFESSIONAL AFFILIATIONS

- **American Institute of Architects, West Virginia Chapter**
- **Chair of the Young Professionals Committee, Huntington Regional Chamber of Commerce**
- **Current Commissioner of the Huntington Urban Renewal Authority**

REGISTRATIONS

- **National Council of Architectural Registration Boards**
  - West Virginia

project team : : WALTER L. WILKES, AIA

Walter Lee Wilkes, AIA

Edward Tucker
Architects, Inc.
Project Architect

Walter "Wally" Wilkes brings over 28 years of architectural and construction experience to each project. His experience in construction and construction document development adds depth and quality management to Edward Tucker Architects, Inc. His background includes a long history of experience in Healthcare, currently working on several projects for Cabell Huntington Hospital in Huntington, West Virginia, and medical office buildings in the Charleston and Huntington region. Previous healthcare work in West Virginia, Kentucky and Ohio includes: Three Gables Surgery Center, King's Daughters Medical Center, Charleston Area Medical Center, St. Mary's Hospital, Thomas Memorial Hospital and United Hospital.

Wally was Project Manager-Architect for the First Bank of Charleston, a new four story bank completed in 2003 on Charleston's west side.

Wally has also served as Project Architect with other firms on such projects as the Clarksburg Armory, Tri-State Armory, Jane Lew Armory USAR, Benedum Airport Renovations, Preston High School Addition, Walton Middle School, and the Administration Building for the Southwestern West Virginia Community & Technical College.

Wally has served as Treasurer and Director of the West Virginia Chapter of the American Institute of Architects. Before beginning his career in architecture, he served in the United States Navy from 1971-1973 aboard the USS Ponce LPD-15.

EDUCATION

- **Marshall University** – Huntington, WV, BA, Fine Arts, 1975
- **Graduate Assistant** – Marshall University, 1976

EMPLOYMENT

- **Kreps & Kreps Architects** Charleston, WV 1998 - 2001
- **Gandee and Partners, Inc.** Charleston, WV 1994 - 1998
- **BSA Design** Charleston, WV 1990 - 1994
- **John D. Meyers & Associates** Ashland, KY 1985 - 1990

PROFESSIONAL AFFILIATIONS

- **American Institute of Architects, West Virginia Chapter**
  - Treasurer, 1999 - 2003
  - Director, 1996 - 1999
- **EXPO Committee AIA West Virginia**, 1997, 2004 - 2006

REGISTRATIONS

- **West Virginia**
- **Vermont**

project team

project team : : HEIDI A. CAMPBELL

Heidi A. Campbell

Edward Tucker
Architects, Inc.
Interior Designer

Heidi Campbell is an Interior Designer with over 13 years of professional design experience, with a specialty in corporate and commercial projects. Born in Minnesota and raised in Tennessee, Heidi earned a Bachelor of Science Degree in Interior Design from the University of Tennessee. After graduation, Heidi's first position was with Dollywood Theme Park as Project Coordinator for a major park expansion.

Since relocating to West Virginia, Heidi has had the opportunity to work with both interior design and architectural firms in Charleston, gaining a wide variety of project experience including government, healthcare and corporate design. In 2004, Heidi joined Edward Tucker Architects, Inc. as an Interior Designer and has since utilized her varied design experience to contribute to a number of design projects including large-scale corporate offices, restaurant and hospitality design, and historic preservation projects.

Heidi is also an adjunct faculty member at the University of Charleston in the Interior Design department. She previously taught the Computer Aided Drafting and Design (CADD) course and continues to teach the junior-level Interior Design Studio II course. She lives in Charleston with her husband Chris and son Carter.

EDUCATION

- **University of Tennessee** – Knoxville, TN, BS, Interior Design, 1995
- **Walt Disney World College Program** – Orlando, FL, 1992

EMPLOYMENT

- **Silling Associates, Inc.,** Charleston, WV
  Interior Designer 2003-2004
- **DesignSpace LLC,** Charleston, WV
  President/Interior Designer 2001-2003
- **Contemporary Galleries,** Charleston, WV
  Interior Designer 1999-2001
- **Capitol Business Interiors,** Charleston, WV
  Interior Designer 1996-1999
- **Dollywood Theme Park,** Pigeon Forge, TN
  Project Coordinator 1995-1996

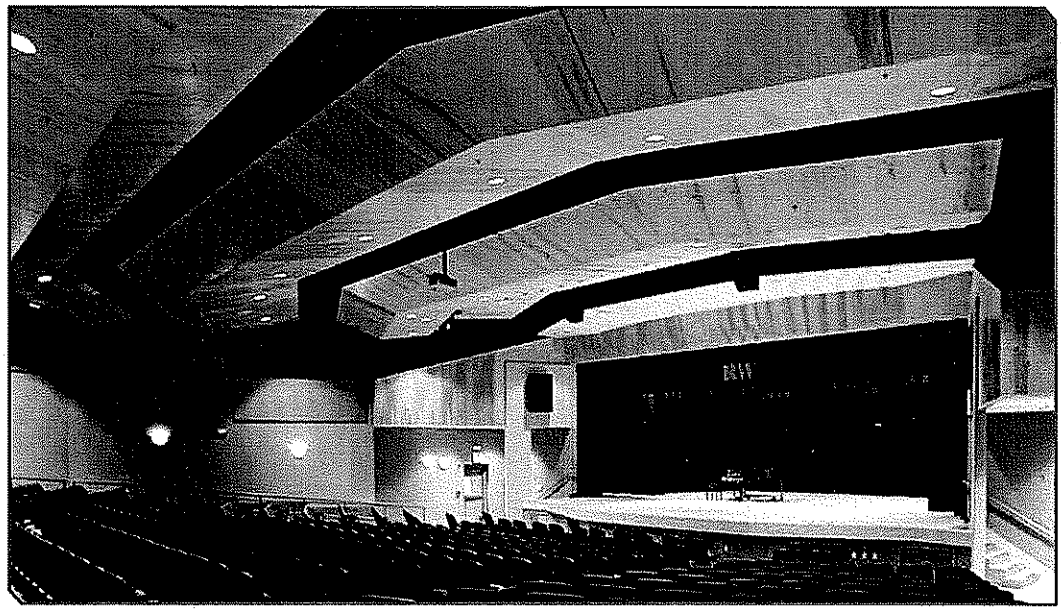
PROFESSIONAL AFFILIATIONS

- **Adjunct Professional Instructor, University of Charleston,** 2005-2008
- **EXPO Committee AIA West Virginia,** 2004-2005
- **Leadership Charleston, Charleston Regional Chamber of Commerce,** 1997

project team

relevant experience :: ACADEMIC

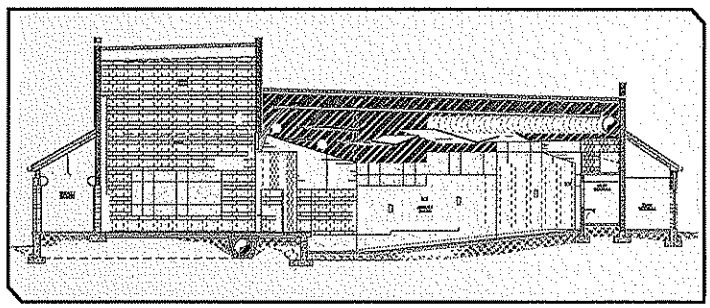
relevant experience

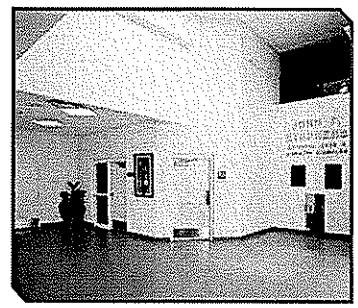


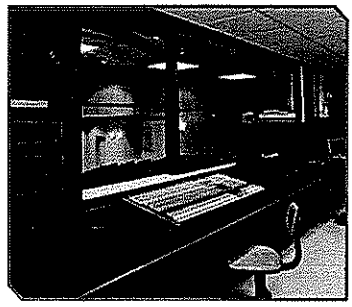
Auditorium Addition to Raceland Worthington High School Cultural Arts and Athletic Complex

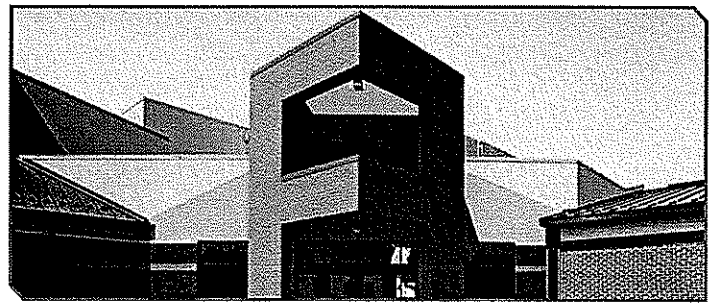
Raceland, Kentucky - Completed 2006

Phase Two of the Complex includes an 11,100 sf Auditorium with seating for 450 people. The stage house provides ample room for theatre curtains, scenery, equipment, props, etc. Specially designed acoustical panels are tailored to the shape of the space, giving a professional performance atmosphere. Other features include chair-back seating, platform lift for the stage, media control room, green room, dressing rooms and a loading dock area with direct access to the rear of the stage. Keeping the long-range plans of the school district in mind, Edward Tucker Architects, Inc. designed a performing arts facility that will enrich the school district and its surrounding community for years to come.



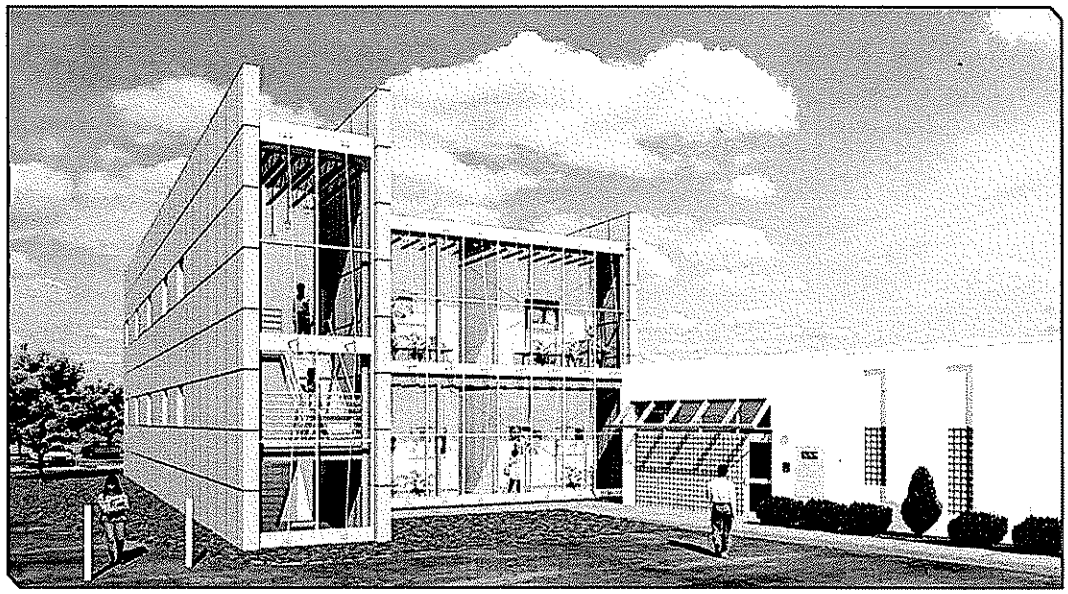






relevant experience : : HIGHER EDUCATION

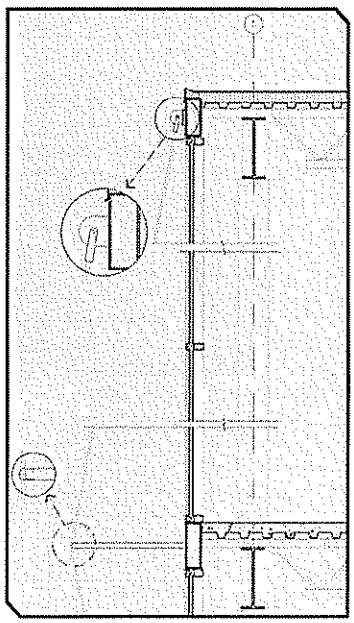
relevant experience

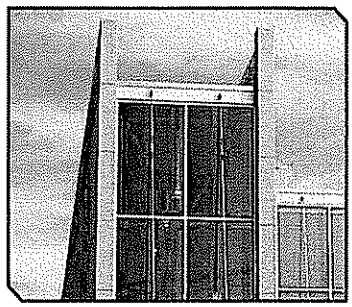


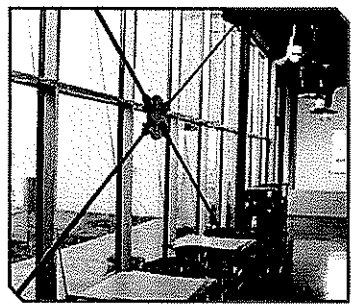
Forensic Science Center Renovation and Addition for Marshall University

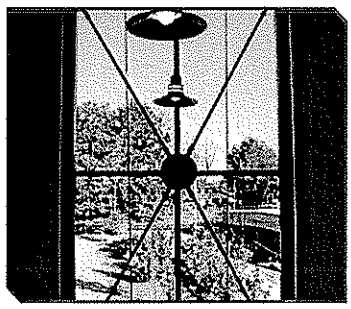
Huntington, West Virginia - Phases 1-2 Completed 2006; Phase 3 Projected Completion 2009

Marshall University commissioned Edward Tucker Architects, Inc. to master plan and design facilities for their growing Forensic Science program. The University chose the project site at the north end of the former Fairfield Stadium. The first phase reused the existing athletic facility building, which was fully gutted and adapted to new teaching and research laboratory uses. The second phase consisted of a two story, 8,000 sf addition that creates a high tech aesthetic through the use of pre-cast concrete, painted steel and glass. It houses lab space for the Cyber Crime division, a large teleconference equipped lecture room, student lounge, project display space, and staff and administrative offices. A 3 story, 16,000 sf laboratory and business incubator wing is designed and projected for completion in 2009.



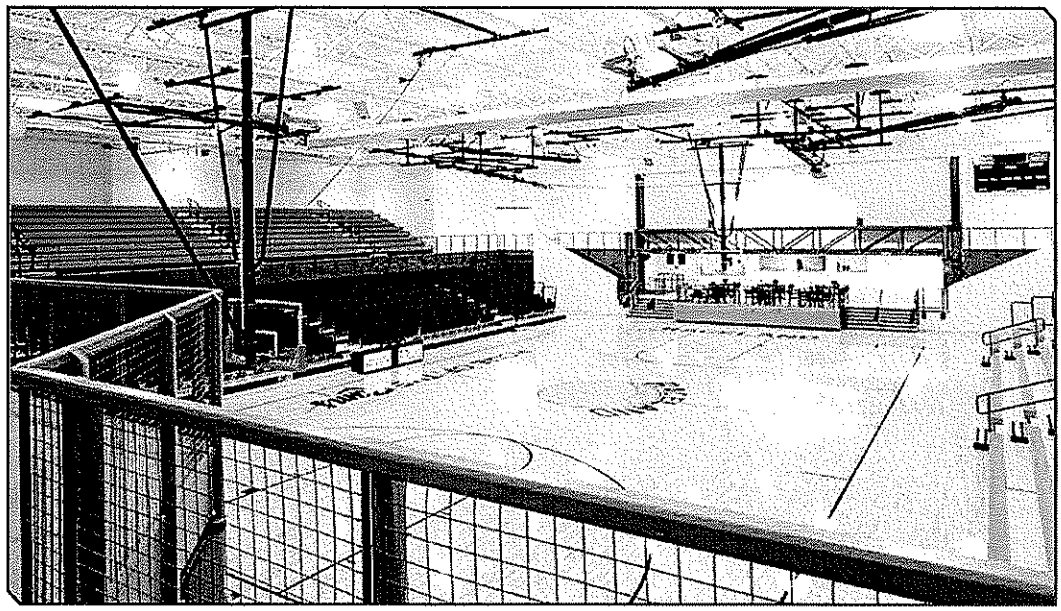






relevant experience :: ACADEMIC

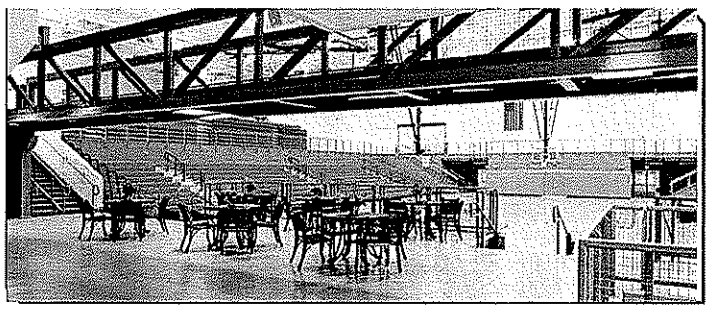
relevant experience

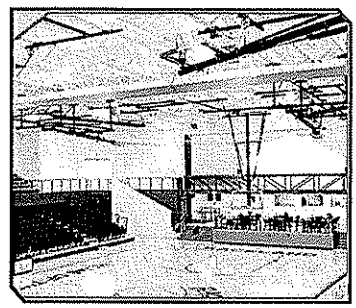


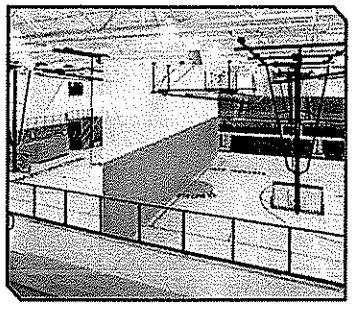
Gymnasium Addition to Raceland Worthington High School Cultural Arts and Athletic Complex

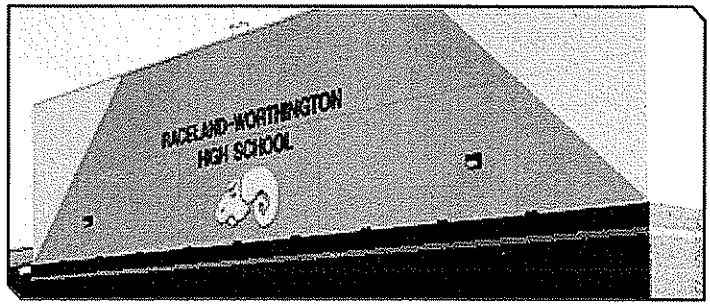
Raceland, Kentucky - Completed 2004

Phase One of the Complex includes a 32,000 sf Gymnasium with a mezzanine level, capable of a total seating capacity for 2,000 people. A concessions area with food court and lobby serve as a connector to the existing high school, while allowing plenty of room for socializing at events. The flexibility of the space allows the food court area to also serve as a stage for the gym in ceremonial events. Located under the mezzanine levels on each side, a total of four separate locker/showering facilities are provided. Other features include automatic collapsible seating, 6 regulation goals, a divider curtain, volleyball net, and a jogging track at the mezzanine level with a bridge over the food court. In the end, Edward Tucker Architects, Inc. has designed an athletic facility that sets a new standard for other schools in the region.



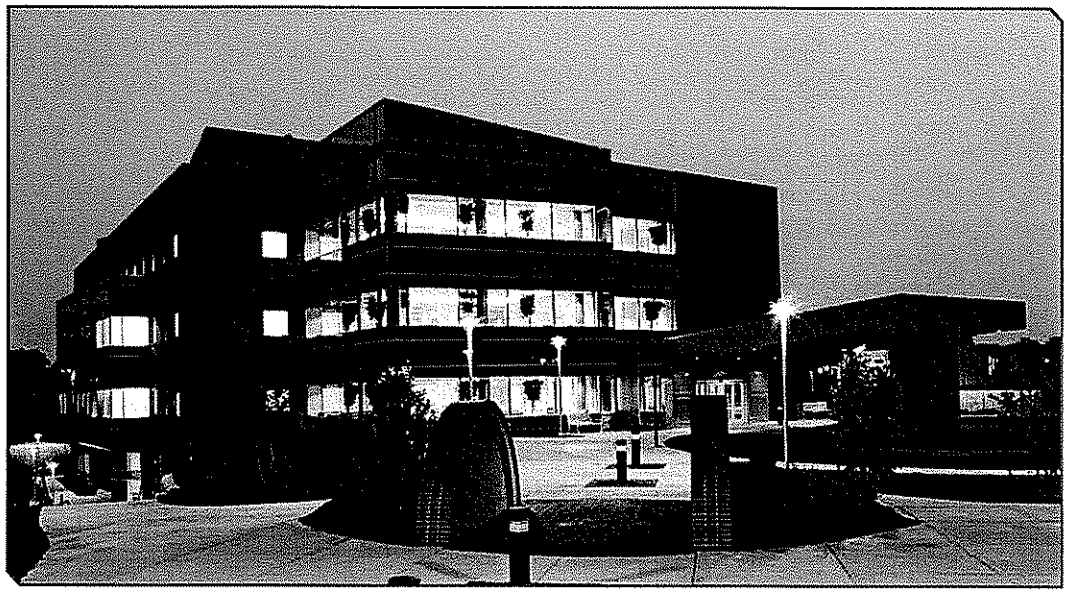






relevant experience :: HEALTHCARE AND HIGHER EDUCATION

relevant experience



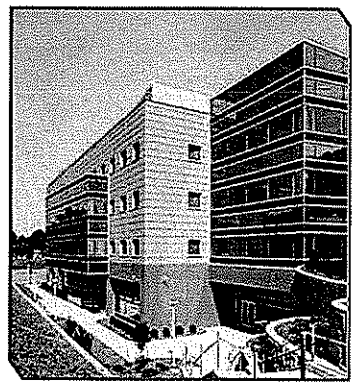
Marshall University Byrd Clinical Center

Huntington, West Virginia - Completed 2007

Edward Tucker Architects, Inc. served as lead architect for this 80,000 square foot health care and higher education facility. ETA partnered with Freeman/White, a Charlotte, NC firm specializing in healthcare design. Freeman/White provided design and consulting services in the schematic design and design development phases, with ETA producing construction documents and providing construction administration services. Edward Tucker Architects, Inc. also was responsible for furniture and signage design packages for the project.

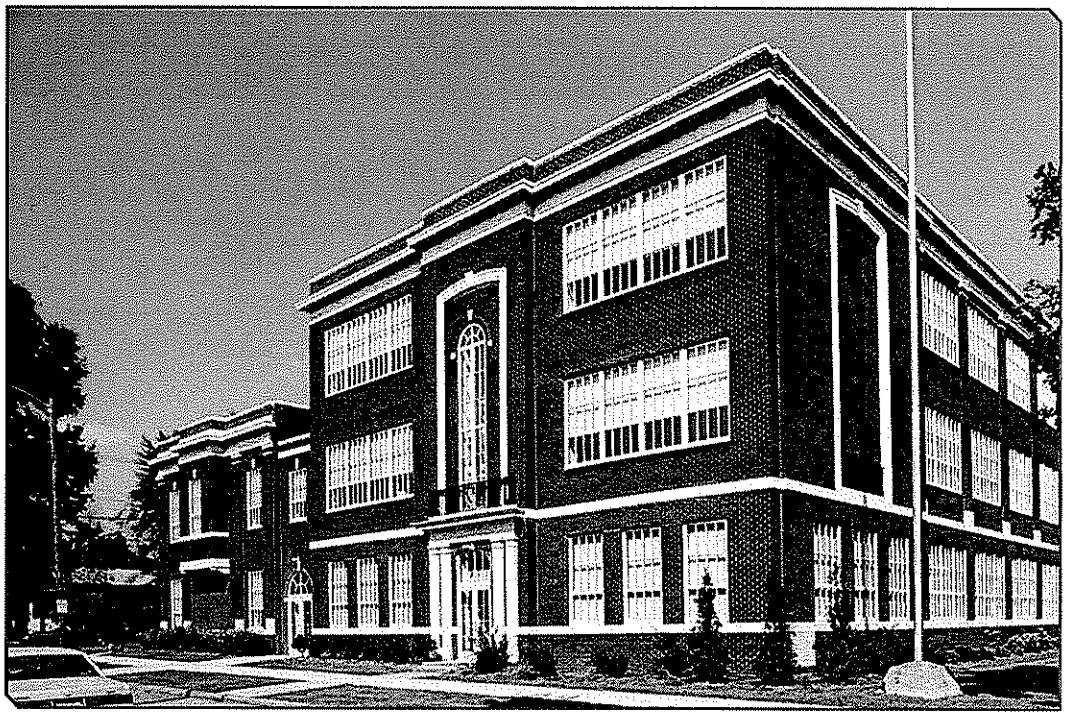
The project site was formerly Marshall University's football stadium. This presented a unique challenge due to the elevation change from 'field level' to 'street level.' The first floor of the building is an educational floor that will be used by Marshall's Joan C. Edward's School of Medicine. This floor is accessed from the field level. The educational spaces include a tiered classroom with state of the art audio visual system, a clinical skills lab and reading room. The upper three floors are clinical space. The second floor is at street level, which is the location of the main patient entry. Also in the project scope was a post-tensioned concrete parking deck for patient parking.

The building utilzes soft earth tones, coordinated furnishings and warm lighting to create a comfortable atmosphere for its inhabitants. The large exam rooms, acoustic control and centrally located nurse stations create a functional and pleasant environment for clinical practice.



relevant experience :: PRESERVATION

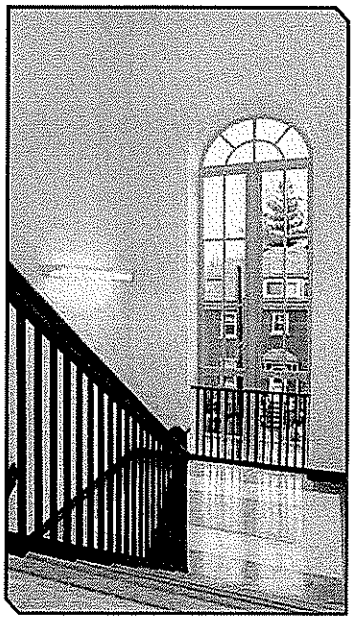
relevant experience

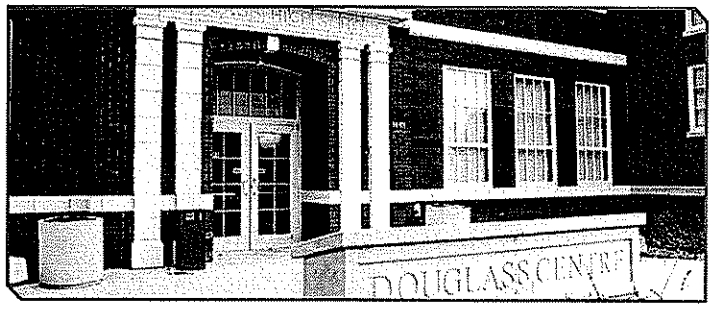


Restoration of Historic Douglass High School

Huntington, West Virginia - Completed 2004

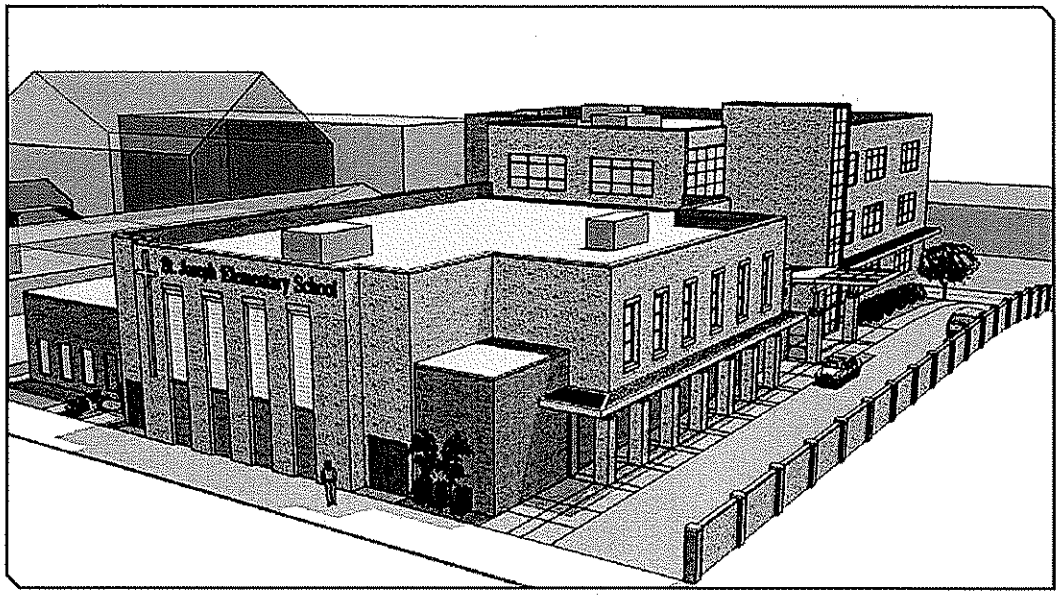
Restoration of the historic Douglass High School into the Douglass Centre for Ebenezer Medical Outreach, Inc. was funded through federal loans, grants and historic preservation grants. All masonry was rehabilitated, existing windows were replaced with historical accuracy, and new roofing completed the exterior improvements. The interior spaces were completely renovated. including replacing antiquated electrical, plumbing, heating and cooling systems with modern, high efficiency systems. A new elevator and other passive accessibility features were added, making the entire building ADA compliant.





relevant experience :: ACADEMIC

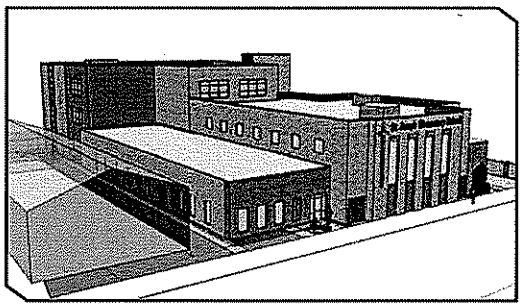
relevant experience

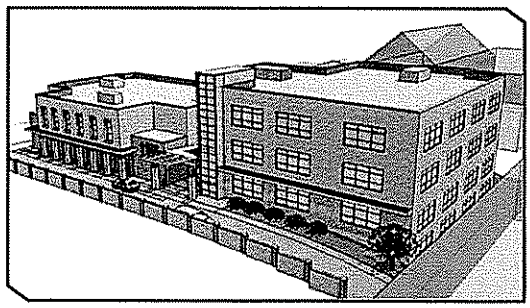


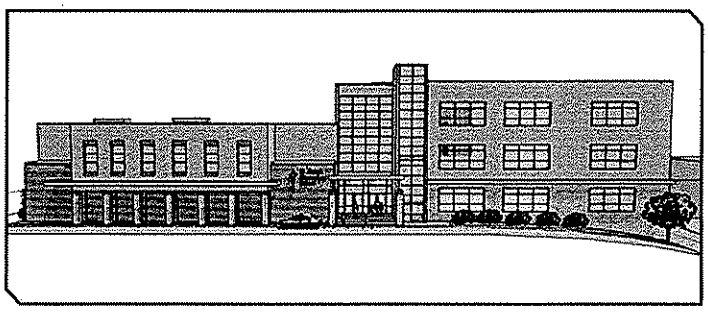
A New Elementary and Middle School for St. Joseph Catholic School

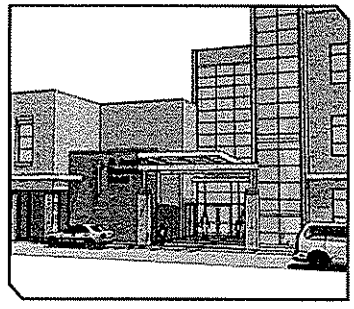
Huntington, West Virginia - Opening January 2009

A new elementary and middle school became a necessity for St. Joseph Catholic School after enrollment exceeded the available space on St. Joseph's campus. The new school is located on a small urban site owned by the church in downtown Huntington. Edward Tucker Architects, Inc. worked within the property constraints to integrate the existing Preschool building while designing a facility that allowed for safer student delivery and pickup. The 39,000 sf facility accommodates grades Pre-K thru 8 with two classrooms per grade, a middle school regulation basketball court and state of the art computer and science labs. Building cost constraints are balanced with durable construction systems to ensure a sustainable structure that will allow efficient continued operation for future generations.



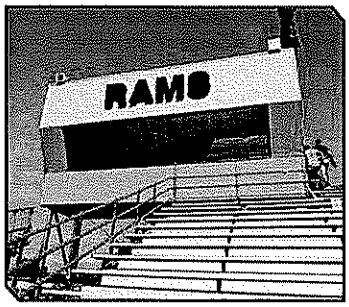






relevant experience :: ATHLETIC / RECREATION

relevant experience



New Stadium Pressbox for Raceland - Worthington High School

Raceland, Kentucky - Completed 2008

After completion of the Raceland-Worthington High School Cultural Arts and Athletic Complex, the Raceland Worthington School Board commissioned Edward Tucker Architects, Inc. to design a new stadium pressbox for the high school football field. The new pressbox is centered on the 50 yard line of the field and is a replacement of the school's existing pressbox to the east. The steel structure's two color synthetic stucco finish is designed to harmonize with the newly constructed auditorium and gynasium to create a visually cohesive campus. The south facing pressbox is designed with a slight overhang that minimizes glare and provides shading from the sun. The design also includes a roof top observation deck for video recording athletic events.

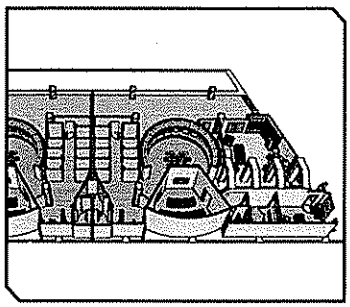
Sue Morris Sports Complex

Glenville, West Virginia - Completed 2007

The Sue Morris Sports Complex contains three baseball/softball fields, a basketball court, a sand volleyball court, a walking trail and two facility buildings consisting of public toilets, press boxes, concessions, equipment rooms and a meeting room. The fields are being used by the Gilmer County Little League and the Gilmer County High School Baseball and Softball teams. A large courtyard is designed to serve as a play area between the fields, as well as a picnic gazebo for family gatherings. The project site, including parking, is approximately 12 acres.

Marshall University Henderson Center Varsity Basketball Teams Locker Rooms

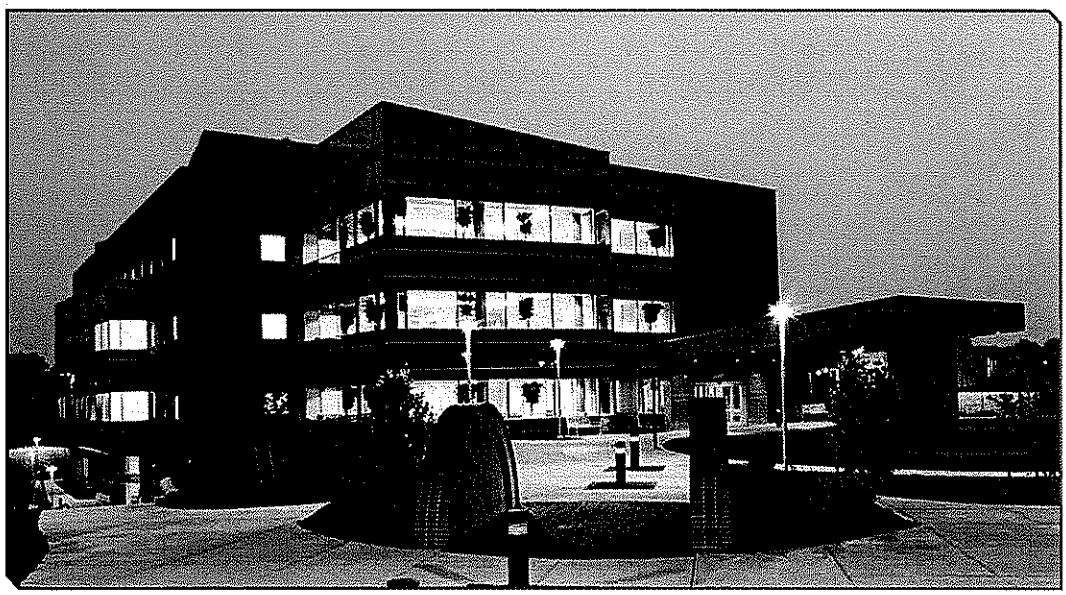
Huntington, West Virginia



Marshall University's Department of Athletics has commissioned Edward Tucker Architects, Inc. to design new locker room facilities for the men's and women's basketball teams. The 8,000 square foot space provides areas for both coaches and players, including lounges, theaters, locker rooms, equipment storage and shower facilities. Edward Tucker Architects, Inc. is working with XOS Technologies to coordinate a state of the art A/V system that integrates video, data and interactive technologies. The space is designed to serve as a showpiece for Marshall's men's and women's basketball programs; not only in the player development of the current student athletes, but also in the attraction of future recruits.

relevant experience :: HEALTHCARE AND HIGHER EDUCATION

relevant experience



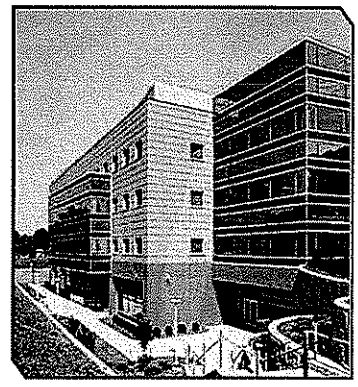
Marshall University Byrd Clinical Center

Huntington, West Virginia - Completed 2007

Edward Tucker Architects, Inc. served as lead architect for this 80,000 square foot health care and higher education facility. ETA partnered with Freeman/White, a Charlotte, NC firm specializing in healthcare design. Freeman/White provided design and consulting services in the schematic design and design development phases, with ETA producing construction documents and providing construction administration services. Edward Tucker Architects, Inc. also was responsible for furniture and signage design packages for the project.

The project site was formerly Marshall University's football stadium. This presented a unique challenge due to the elevation change from 'field level' to 'street level.' The first floor of the building is an educational floor that will be used by Marshall's Joan C. Edward's School of Medicine. This floor is accessed from the field level. The educational spaces include a tiered classroom with state of the art audio visual system, a clinical skills lab and reading room. The upper three floors are clinical space. The second floor is at street level, which is the location of the main patient entry. Also in the project scope was a post-tensioned concrete parking deck for patient parking.

The building utilzes soft earth tones, coordinated furnishings and warm lighting to create a comfortable atmosphere for its inhabitants. The large exam rooms, acoustic control and centrally located nurse stations create a functional and pleasant environment for clinical practice.



relevant experience :: COMMERCIAL

relevant experience

Frankie D's Italian Chophouse

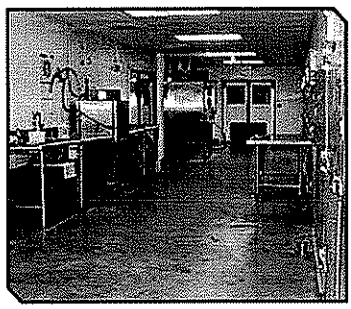
Huntington, West Virginia

In April 2007, Frankie D's Italian Chophouse commissioned Edward Tucker Architects, Inc. to design and oversee construction of a new 7,000 sf restaurant located at Pullman Square in downtown Huntington, WV. The restaurant features all original design work from the logos to a wealth of interior wood and stone detailing. Complimented by ETA's own interior designer and Paris signs graphic department, Frankie D's is one of the premier restaurant establishments in the region.

Chili Willi's

Huntington, West Virginia

Chili Willi's, a Huntington dining institution, hired Edward Tucker Architects, Inc. to design their new restaurant as they moved to a new location. The project included an addition to allow for the installation of the kitchen and support spaces, as well as interior design of the dining areas, bar and an enclosed porch for outdoor dining. The porch has large garage doors that can be opened in warm weather, but is also heated to allow for year round use. The interior of the restaurant is accented in bright colors and the owner's collection of Mesoamerican objects



Mountain Bounty Kitchen - Unlimited Futures, Inc.

Huntington, West Virginia

Mountain Bounty Kitchen consists of a USDA approved kitchen, an FDA approved kitchen, warehouse space and an adminstrative area. Edward Tucker Architects, Inc. performed Construction Administration on both phases of the project, and designed Phase Two of the project, which consisted of kitchen equipment, the HVAC system, and a refrigeration system for the walk in freezers and coolers. The facility is equipped with a bottle filling line, blast chiller, several walk in freezers and coolers and a range of other equipment that can be used to mass produce products. Tenants can lease the kitchens on an as needed basis to produce their recipies or run catering businesses.

Section 5

Sub-Consultants

NOVEL GEO-ENVIRONMENTAL, PLLC
SCHEESER BUCKLEY MAYFIELD, LLC

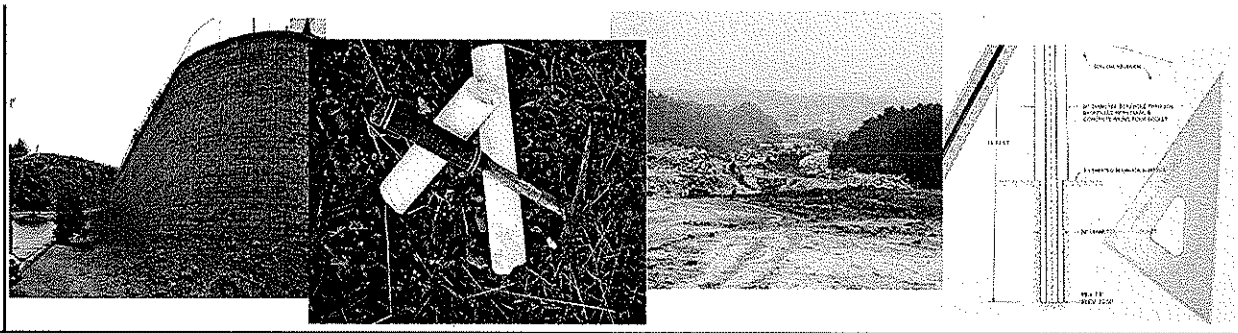
Novel Geo-Environmental, PLLC

St. Albans, West Virginia

Exceptional staff.

Exceptional results.

Allow us to show what we can do for you.



Company Overview

Novel Geo-Environmental, PLLC (NGE) is a full-service geotechnical and environmental engineering firm with offices located in St. Albans, West Virginia, and Pittsburgh, Pennsylvania. Led by an experienced management team, NGE provides quality geotechnical services to a variety of clients in both the private industry and government sectors.

In business since 2002, NGE is one of the fastest growing engineering consulting firms in the country.

Who is NGE?

Our staff includes professional engineers, geologists, scientists, construction managers, and foremen with experience in a broad range of technical disciplines. Our management team averages 15+ years of experience per person

Why NGE?

NGE is large enough to fulfill the needs of our client in-house, yet small enough to provide the personal focus each client deserves. With smaller overhead than larger companies, NGE can provide exceptional services at lower cost.

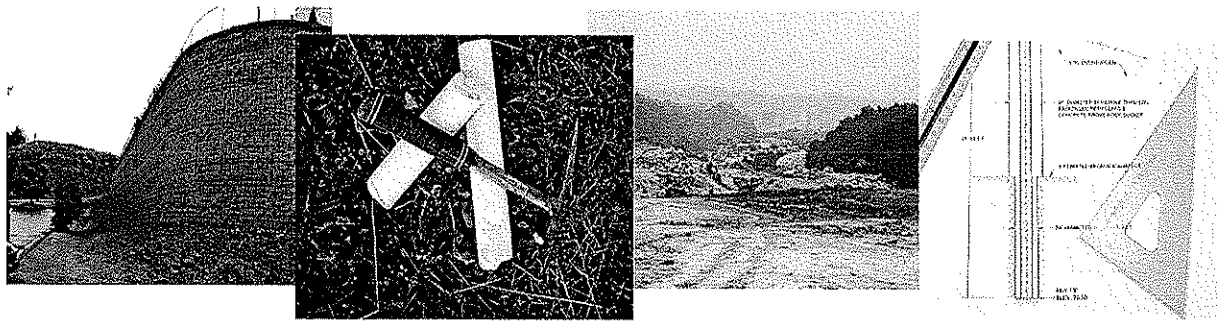
NGE is a Certified Disadvantaged Business Enterprise (DBE) in West Virginia, Pennsylvania, Ohio, Maryland, and New Jersey and is certified by the Small Business Administration as an 8(a) Small Disadvantaged Business.

West Virginia Office

806 B Street
St. Albans, WV 25177
(304) 201-5180
(304) 201-5182 (fax)
Contact: John E. Nottingham, P.E.
jnottingham@novel-ge.com

Pennsylvania Office

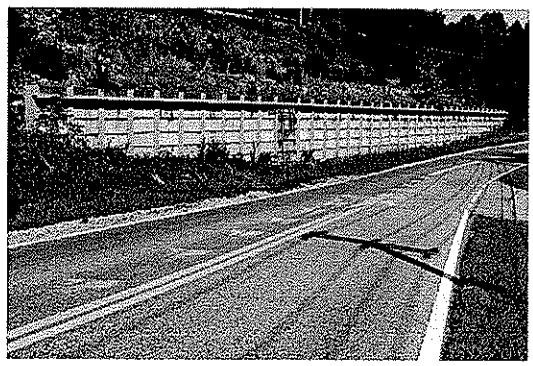
100 Commercial Street, Suite 101
Bridgeville, PA 15017
(412) 838-0115
(412) 838-0120 (fax)
Contact: Amy L. Veltri, P.E.
aveltri@novel-ge.com

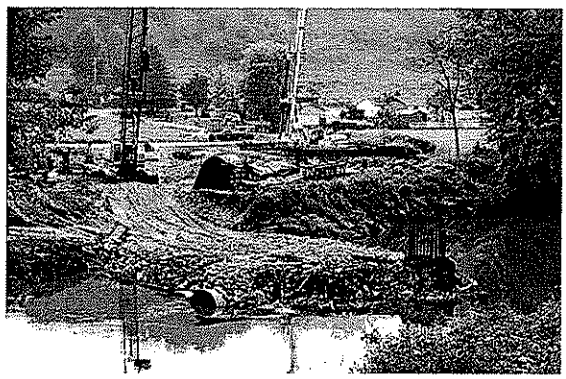


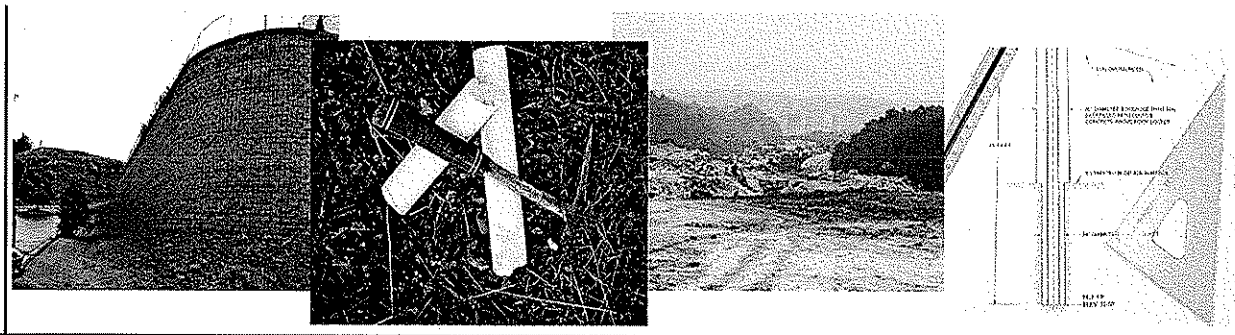
Geotechnical Engineering

The natural complexity and variability present in the subsurface requires a specialized expertise to ensure reliable results. NGE investigates and evaluates subsurface soil, rock, and groundwater conditions to analyze their response to the needs of a given project, whether they be foundation loads, site grading operations/slope configuration, or retaining wall design. A sampling of the geotechnical services NGE provides includes the following:

- Foundation investigations - commercial/residential construction, WVDOH bridge and roadway, airport geotechnical design, public and private utilities (water storage tanks, communications towers, etc.)
- Landslide investigations/remediation - slope design, retaining wall design
- Forensic Engineering/Insurance investigations
- Mine subsidence investigations/ground stabilization
- Dam design/rehabilitation
- Pavement analysis and design
- Groundwater seepage analysis and design





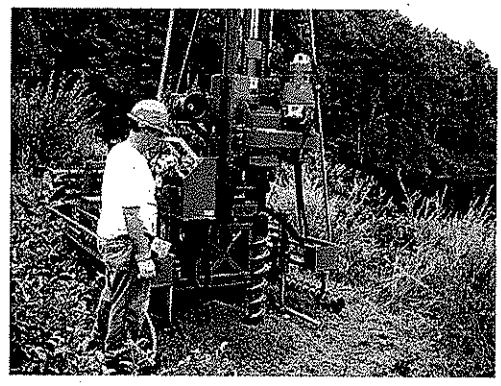


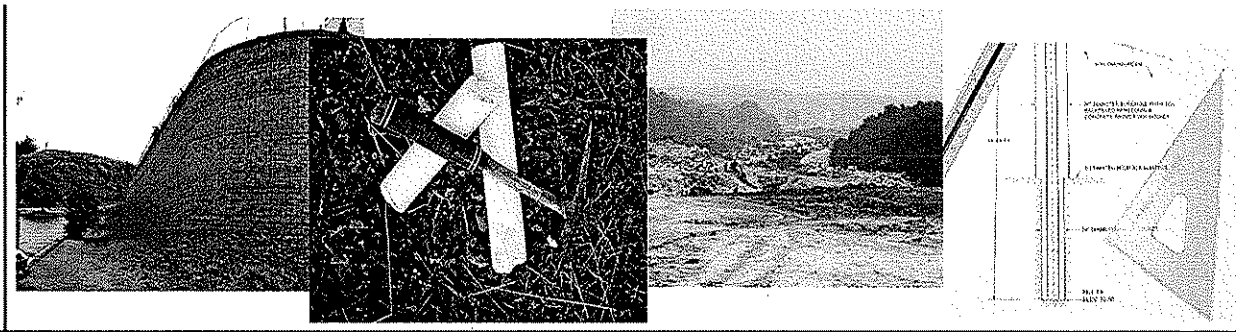
Drilling Services

NGE is equipped with a variety of versatile drilling equipment to meet the demands of our clients even in the most demanding of environments. This includes:

- Truck-mounted rotary drill rig equipped with hollow stem augers used primarily for Standard Penetration Testing (SPT). It can also be used for conventional rock coring.
- Custom manufactured state-of-the-art track-mounted rotary drill rig, also equipped with hollow stem augers for SPT sampling. This machine is also equipped for wire-line coring and is uniquely designed to access hard-to-reach areas (such as rugged terrain or limited access) with a minimum of disturbance.
- Portable Tri-Pod drill able to perform SPT sampling in areas that are inaccessible to conventional drilling equipment.
- Dynamic Cone Penetrometer - portable device designed to provide comparable SPT "N-values" in areas with very limited access

NGE also provides monitoring well installation services that meet the requirements for the State of West Virginia Certified Monitoring Well Driller program.

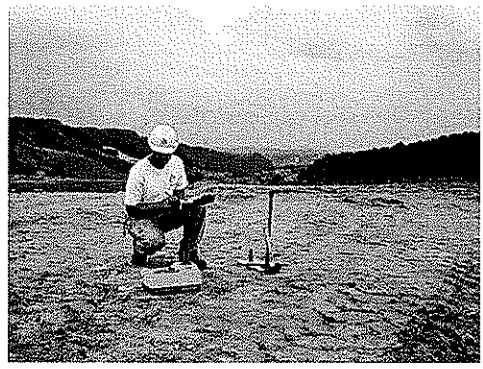


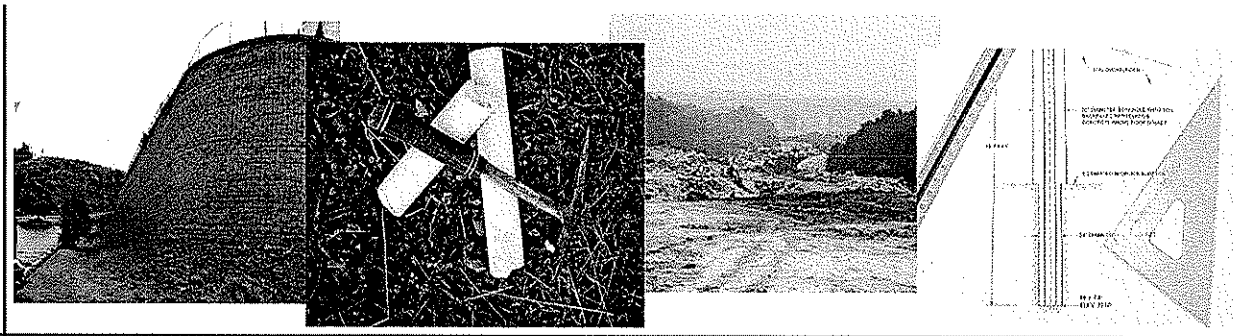


Construction Monitoring and Inspection Services

NGE offers inspection services to support a wide variety of construction projects, including highway, building, and airport. Our technicians are qualified and certified in a variety of services and will meet the specific needs of the client in an efficient and competent manner. NGE is also a West Virginia certified DBE firm as well as a federal Disadvantaged Business (8[a]). NGE can provide and manage the following services:

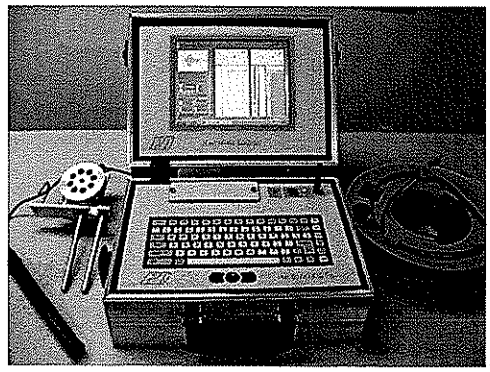
- Materials Testing and Analysis (concrete, asphalt, fill placement)
- Independent Construction Inspection
- Contractor Submittal and Shop Drawing Review
- Documentation and Process Verification
- Bidding Assistance and Analysis
- Cost Estimating and Cost Control Monitoring
- Design Review
- Value Engineering
- Project Partnering
- Quality Assurance Monitoring





Laboratory Testing Services

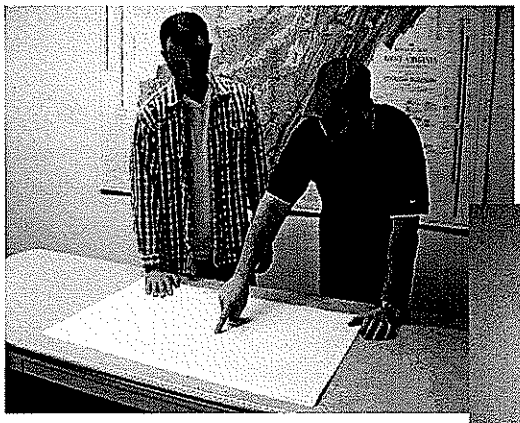
NGE can provide laboratory geotechnical testing in accordance with ASTM standards under controlled conditions to further estimate the engineering properties of soil and rock materials. Typical laboratory testing includes soil classification, compaction, compressibility, swell potential, and permeability.

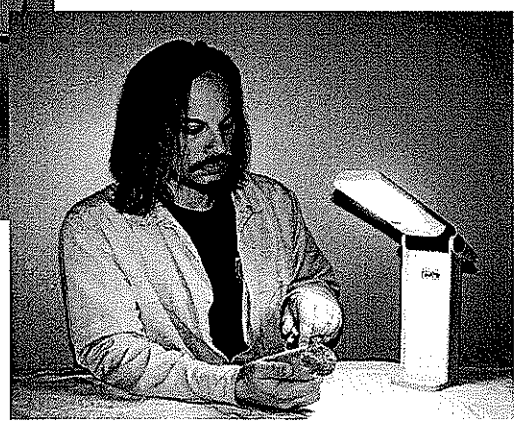


Crosshole Sonic Logging (CSL)

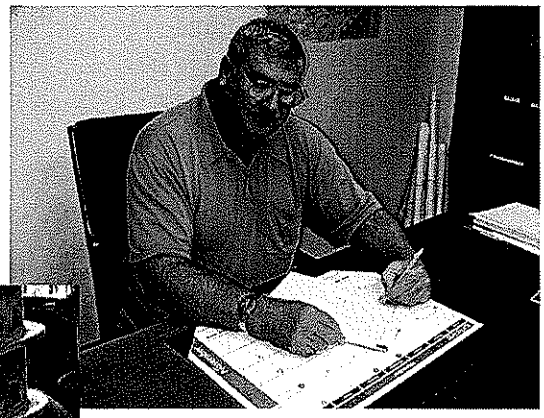
NGE provides Crosshole Sonic Logging (CSL) to test the integrity of drilled concrete shafts. CSL testing is a non-destructive method that checks the homogeneity and integrity of concrete in a deep foundation by sending ultrasonic pulses through the concrete from one probe to another. The test measures the propagation time and relative energy of the ultrasonic pulse between parallel access tubes (access tubes typically consist of 2-inch diameter steel tubes attached to the drilled shaft reinforcement cage). The pulse arrival time (a.k.a. first arrival time (FAT)) and energy are affected by the concrete. Uniform concrete yields consistent arrival times with reasonable wave speed and energy. Non-uniformities such as zones of poor quality concrete, honeycombing, voids, and soil inclusions exhibit delayed arrival times with corresponding reduced signal energy.

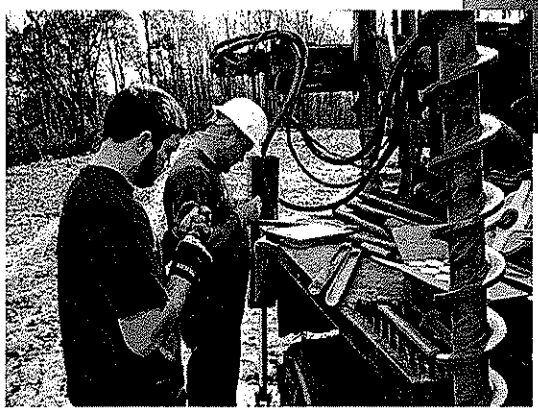
NGE's broad range of experience in each of the previously listed services enables us to provide our clients with high-quality geotechnical engineering, remediation and construction services while meeting budgets and deadlines.





Personnel





Amy L. Veltri, P.E., DEE

Over eleven years of experience as an environmental and civil engineer in consulting and industry. Currently serving as president of a geotechnical and environmental engineering consulting firm. Experience includes extensive management of personnel and large projects, including management of project schedules, scope of work, and budgets. Personnel management includes selection of project staffing, staff reviews, and mentoring. Significant experience in air quality for various industrial clients including Title V permitting and compliance, emissions inventories and control technology assessments. Completed numerous multi-media regulatory compliance audits and Phase I site assessments. Assisted clients with ISO 14001 registration process. Assisted industrial clients with NPDES permit compliance including completion of DMR's and permit renewal and negotiation. Completed general construction monitoring services including density testing and concrete testing.

Fields of Competence

- Personnel Management
- Project Management (schedule and budget)
- Air Quality Regulations/Compliance
- Wastewater Treatment/Permitting
- Environmental Management Systems (ISO 14001)
- Process Safety Management/Risk Management Planning
- Multimedia Compliance Audits
- Hazardous Waste Training
- Stormwater Permitting/Pollution Prevention Plans
- Spill Prevention Control and Countermeasure Plans
- Construction Monitoring and General Geotechnical Engineering

Education

- M.S., Civil Engineer, West Virginia University, 1996
- B.S., Civil Engineer, West Virginia Institute of Technology, 1989
- OSHA 1910.120 40-hour HAZWOPER Training, 1991

Registration/Certifications

- Registered Professional Engineer in Pennsylvania. Registration No.: PE-050393-E, Registration Date: 08/96
- Registered Professional Engineer in West Virginia. Registration No.: 14241, Registration Date: 09/99
- Diplomat Environmental Engineer, American Academy of Environmental Engineers, 07/02
- Certified Wastewater Treatment Plant Operator, Class A in Pennsylvania. Certificate No.: T3770, Registration Date: 06/01
- Certified ISO 14001 Lead Assessor, 04/02

Employment History

- August 2002 – Present
  President, Novel Geo-Environmental, LLC
- August 1998 – August 2002
  Senior Project Manager, ERM
- November 1995 – August 1998
  Regional Environmental Coordinator, US Airways
- March 1992 – November 1995
  Project Engineer, ERM
- January 1990-September 1990
  Staff Engineer, ERM

John E. Nottingham, P.E., P.S.

Mr. Nottingham has served as lead Geotechnical Engineer on numerous government and commercial design and construction projects. His responsibilities on these projects include direction and coordination of all geotechnical engineering activities. Duties on these projects have included foundation investigation report production, foundation and retaining wall design, fill embankment and cut slope design, dam design and analysis, slope stability analysis, pavement design, design of drainage systems, supervision of subsurface drilling programs, field activity coordination, laboratory data computation and processing, performance of field work, client relations, and supervision of staff and project level geotechnical engineers.

Fields of Competence

- Highway & Airport Geotechnical Design
- Foundation Investigations
- Pavement Analysis and Design
- Landslide Analysis & Remedial Design
- Ground Water and Seepage Analysis & Design
- Retaining Wall Design
- Mine Subsidence Investigations
- Forensic & Insurance Investigations
- Construction Monitoring
- Personnel Management
- Project Management (schedule and budget)
- Project Estimating

Education

- B.S., Civil Engineering, West Virginia University - 1987
- M.S., Civil Engineering, West Virginia University - 1995

Registration/Certifications

- Registered Professional Engineer in West Virginia. Registration No. 12357 (since 1994)
- Registered Professional Surveyor in West Virginia. Registration No. 1495 (since 1995)

Employment History

- November 2002 – Present
  Branch Manager, Novel Geo-Environmental, LLC
- 1997 – November 2002
  Geotechnical Services Manager, Triad Engineering, Inc.
- 1996 – November 2002
  Senior Engineer, Triad Engineering, Inc.
- 1993 – 1996
  Project Engineer, Triad Engineering, Inc.
- 1988 – 1993
  Staff Engineer, Triad Engineering, Inc.

Larry C. Nottingham, PhD, PE

Mr. Nottingham served as a Principal Engineer at Triad Engineering, Inc. for over 25 years before joining the professional staff at NGE. During that time he has accumluted a broad range of experience in the numerous disciplines of geotechnical engineering. Mr. Nottingham also served as a professor and department chair of the Civil Engineering Department at the West Virginia University Institute of Technology in Montgomery, West Virginia. Mr. Nottingham was involved with consultation and review of many subsidence related projects performed for BRIM as well as the WVDEP.

Fields of Competence

- Foundation Investigations
- Landslide Analysis & Remedial Design
- Mine Subsidence Investigations
- Highway & Airport Geotechnical Design
- Pavement Analysis & Design
- Retaining Wall Design
- Forensic & Insurance Investigations
- Expert Witness Consultation
- Ground Water and Seepage Analysis & Design
- Dam Analysis & Design
- Personnel Management
- Project Management
- Project Estimating

Education

- B.S.C.E., Civil Engineering, West Virginia Institute of Technology, 1965
- M.S.C.E., Civil Engineering, Universtiy of Pittsburgh, 1966
- Ph.D., Civil Engineering, University of Florida, 1975

Registration/Certifications

Registered Professional Engineer in West Virginia, Kentucky, and Ohio

Employment History

- May 2005 – Present
  Senior Egineer, Novel Geo-Environmental, PLLC
- 1979 – May, 2005
  Principal Engineer, Triad Engineering, Inc.
- 1989 - 1994
  Professor and Department of Civil Engineering Chair, West Virginia Institute of Technology
- 1975 - 1979
  Senior Engineer, Fugro Gulf, Inc., Houston, Texas
- 1970 - 1974
  Project Engineer, Florida Department of Transportation
- 1967 – 1970
  Project Engineer – Ackenheil & Associates, Inc.

Chuck Montgomery, P.G

Mr. Montgomery has served as Project Geologist on numerous projects for clients in private industry as well as for state and federal agencies. He has performed a variety of roles in various projects from office management activities to coordination of field activities. Duties on these projects have included foundation investigation report production, mine subsidence evaluation and assessment, supervision of subsurface drilling programs, field activity coordination, laboratory data computation and processing, performance of fieldwork, client relations, and supervision of staff.

Fields of Competence

- Foundation Investigations
- Landslide Analysis
- Mine Subsidence Investigations
- Seismic Site Class evaluation, per International Building Code (IBC) 2000 edition.
- Forensic & Insurance Investigations
- Personnel Management
- Project Management (schedule and budget)
- Project Estimating

Education

- B.S., Geology, Marshall University – 1991
- OSHA 1910.120 40-hour HAZWOPER Training, 1992

Registration/Certifications

- Registered Professional Geologist in Kentucky. Registration No. KY-2258 (since 1999)
- Certified Monitoring Well Driller in West Virginia
- OSHA 1910.120 40-hour HAZWOPER Training, 1992

Employment History

- February 2004 – Present
  Project Manager, Novel Geo-Environmental, LLC
- 1996 – February 2004
  Project Geologist, Triad Engineering, Inc.
- 1992 –1996
  Staff Geologist, Triad Engineering, Inc.

Gene Brown, E.I.

Mr. Brown has served as Staff Engineer on numerous projects for clients in private industry as well as for state and federal agencies. He has performed a variety of roles in various projects from office management activities to coordination of field activities. Duties on these projects have included foundation investigation report production, slope stability analysis, dam analysis, AutoCAD drafting, supervision of subsurface drilling programs, field activity coordination, field portion of environmental site assessments, structural inspections, GPS and conventional surveys, laboratory data computation and processing, performance of fieldwork, client relations, and supervision of staff.

Fields of Competence

- Foundation Investigations
- Landslide Analysis & Remedial Design
- Seismic Site Class evaluation, per International Building Code (IBC) 2000 edition.
- Construction Monitoring
- Personnel Management
- Project Management (schedule and budget)
- Project Estimating

Education

- BS, Civil Engineering Technology, Bluefield State College, 2000
- BS, Architectural Engineering Technology, Bluefield State College, 2000

Registration/Certifications

- Engineer Intern, West Virginia
- OSHA 1910.120 40-hour HAZWOPER Training, 2005

Employment History

- October 2006 – Present
  Staff Engineer, Novel Geo-Environmental, LLC
- 2001 – 2006
  Staff Engineer, Terradon Corporation
- 2000 – 2001
  Survey Technician, John E. Chance & Associates, Inc
- 1999
  Engineer Intern, Burgess & Niple, Ltd.

Christopher T. Dunlap

Mr. Dunlap has served as an engineering technician/field inspector on numerous government and commercial construction projects. His duties on these projects have included quality assurance/quality control (QA/QC), construction oversite and testing, coordination of field activities, liaison between general contractor and engineer, and project reporting. Mr. Dunlap also has experience with drilling inspection and computation of laboratory data.

Fields of Competence

- Fill placement monitoring/compaction
- Concrete testing and sampling
- Asphalt testing/compaction
- Project Management
- Drilling Inspection
- Project Documentation/Reporting

Education

- A.S., Mechanical Engineering Technology, WVU Institute of Technology, 2000

Registration/Certifications

- Certification for WV DOH Compaction Technician.
- Certification for WV DOH Concrete Technician/Inspector.
- Certification for WV DOH Asphalt Inspector.
- American Concrete Institute (ACI) Certified

Employment History

- July 2004 -Present
  Staff Engineer, Novel Geo-Environmental, LLC
- August 2000 -July 2004
  Field Technician, Triad Engineering, Inc.

Larry E. Easter

Mr. Easter has approximately 39 years experience as quality control technician/inspector and environmental technician. As a geotechnical technician, he has provided quality control overnight and testing services on numerous commercial and industrial projects. His duties have included compaction and concrete testing and observations, liaison between the general contractor and Engineer/Owner, and project reporting. He also has experience as a soils and concrete laboratory technician and as an engineering draftsman.

Fields of Competence

- Compaction testing and fill placement monitoring
- Concrete testing and sampling
- Drilling inspection
- Project documentation/reporting
- Geotechnical laboratory testing
- Concrete laboratory testing
- AutoCAD drafting and design

Education

- Certificate - Computer Aided Drafting and Design; Ben Franklin Career Center, 2005
- Troxler Nuclear Moisture-Density Gauge Certification, 2005

Employment History

- 1970 - 2004
  Flexsys America
  Environmental Technician
  Laboratory Analyst
  Operating Technician
  Master Mechanic
- 1966 - 1970
  A. C. Ackenheil & Associates, Inc.
  Compaction Technician
  Concrete Technician
  Soils & Concrete Laboratory Technician
  Engineering Draftsman

SCHEESER
BUCKLEY
MAYFIELD LLC
Consulting Engineers

Offering Mechanical, Electrical, Civil and Telecommunication Consulting Engineering Services

ABOUT THE FIRM

Scheeser Buckley Mayfield LLC is an Ohio-based Consulting Engineering firm that serves clients throughout Ohio and the surrounding states. The firm was established in 1959 by Walter L. Scheeser and Edwin J. Buckley, specializing in the design of mechanical systems for the construction industry. The firm has enjoyed a steady growth in clients and geographical area served throughout its history, and its services now include electrical, civil, and telecommunication design.

Scheeser Buckley Mayfield LLC has developed an outstanding reputation for both its accessibility to its clients and the clarity and completeness of its documents. The firm has been a leader in the application of new technology. It has extensive experience in the design and analysis of projects of all sizes, which it can draw upon for future projects. Each project requires an analysis of the most cost effective system available based on the client's design parameters. It is also the responsibility of the design team to determine if other options exist which may be beyond the scope of the current budget and which need to be considered on the current project to allow for future growth. Scheeser Buckley Mayfield LLC gives this personal attention to each project by determining the project design which can be implemented within the client's budget while applying innovative design concepts.

Many of SBM's projects originate from clients who have used its services previously and wish to continue a professional association. Scheeser Buckley Mayfield LLC strives to provide very professional and competent engineering services to all of our clients and to develop a personal relationship with these clients. This on-going association with clients provides an opportunity for them to better understand design concepts as well as the logic behind the decisions which may affect their systems for many years after the project's completion.

SCHEESER
BUCKLEY
MAYFIELD LLC
Consulting Engineers

Offering Mechanical, Electrical, Civil and Telecommunication Consulting Engineering Services

SERVICES

General Services

Master Planning
Feasibility Studies
Energy Audits
Life Cycle Cost Analysis
Construction Cost Estimates
Construction Inspection
Commissioning
Computerized Calculations
CAD Drawings
LEED Certified Engineers

Types of Facilities

Medical
Educational
Institutional
Commercial
Industrial
Laboratory Design
Computer Room Design
Corrections Facilities

Telecommunications Services

Voice - PBX, VoiceMail, ACD, IVR
Data - LAN/WAN
Video Systems
Structured Cabling
System Integration
Network Optimization
Cost Study/Audits
Disaster Recovery

Civil Services

Development Layouts
Site Grading
Roadways & Pavement Design
Storm Water Management
Sanitary/Storm Sewer Design
Domestic Water/Fire Line Design
Earthwork Calculations
Drainage & Flood Plain Analysis
Construction Observation

Electrical Services

Lighting Systems
Power Distribution
Communication Systems
Fire Alarm Systems
Security and Surveillance Systems
Energy Audits
Power Quality Analysis & Metering
Green Lights Survey
Emergency Power Generation and Distribution
Medium Voltage Power Distribution and Substation Design

Mechanical Services

Air Conditioning
Heating
Ventilation
Medical Gas Piping & System
Sanitary and Storm Piping
Process Piping
Domestic Water Piping & System
Fuel Oil Piping & Systems

SCHEESER BUCKLEY MAYFIELD LLC
Consulting Engineers

Offering Mechanical, Electrical, Civil and Telecommunication Consulting Engineering Services

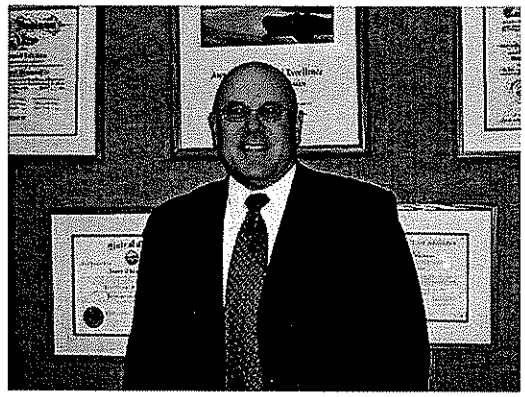
PERSONNEL

Name	Title	Experience
PRINCIPALS		
James E. Eckman, P.E.	President – Electrical Engineer	23 years
James P. Kulick, P.E.	Vice President – Civil Engineer	29 years
Michael P. Wesner, P.E.	V.P. Mechanical Engineering	26 years
Marlon Hathaway, P.E.	V.P. Electrical Engineering	16 years
Kevin M. Noble, P.E.	Principal – Civil Engineer	20 years
Christopher J. Schoonover, P.E.	Principal – Mechanical Engineer	15 years
Vincent Feidler, P.E.	Principal – Mechanical Engineer	11 years
ENGINEERS/TECHNICAL		
John A. McDonough, P.E.	Electrical Engineer (Sr. Associate)	32 years
Joshua Roehm, P.E.	Mechanical Engineer (Associate)	11 years
Chad Montgomery, P.E.	Mechanical Engineer (Associate)	10 years
Ron Radabaugh, P.E.	Electrical Engineer (Associate)	19 years
Joe Harless, RCDD	Telecommunications Designer	16 years
Doug Chapman	Electrical Engineer	8 years
Kevin Donati	Electrical Engineer	5 years
Dave Holbrook	Electrical Engineer	6 years
Joe Ross	Electrical Engineer	7 years
John Varga, E.I.T.	Civil / Mechanical Engineer	8 years
Lan Li, P.E.	Mechanical Engineer	8 years
Kirby Stoller, P.E.	Mechanical Engineer	8years
Chad Headings, P.E.	Mechanical Engineer	6 years
Joseph Bilinski, E.I.T.	Mechanical Engineer	5 years
Ed Hegnauer	Field Representative	38 years
Chris Miller	Civil Technician	8 years

Eight additional personnel in Drafting Department
Three Word Processing personnel
Two Administrative personnel

JAMES E. ECKMAN, P.E., LC, LEED AP
PRESIDENT

PERSONAL RESUME



Mr. Eckman attended The University of Akron where he received his Bachelor of Science Degree in Electrical Engineering in 1984.

After graduation, Mr. Eckman began his career as a consulting engineer by accepting a position as junior engineer with Kucheman, Peters and Tschantz, Inc., an electrical consulting firm in Akron, Ohio. During this engagement, he gained experience in the electrical design of commercial, industrial and healthcare facilities. Mr. Eckman also served as project manager for many of the projects he designed.

Desiring to further his career as a consulting engineer, Mr. Eckman accepted a position of Senior Engineer with Scheeser Buckley Mayfield LLC in 1989. Mr. Eckman was promoted to the position of Associate in 1990, became a Principal in the firm in 1991 and Vice President of Electrical Engineering in 1992, and President in 2003.

Mr. Eckman was a member of the Institute of Electrical and Electronics Engineers for eight years and is currently an active member of the Electrical League of Northeastern Ohio and the Illuminating Engineering Society (IES). Mr. Eckman has served as Treasurer and President of the Cleveland/Akron IES section and a member of the Executive Committee for the Electrical League. Additionally, Mr. Eckman is registered with the EPA as a Greenlights Surveyor Ally and has completed and passed the Technical Knowledge Exam (TKE) administered by the IES on a national basis to gauge individuals expertise in lighting concepts, fundamentals and design. Mr. Eckman served on the College of Engineering Advancement Council for The University of Akron from 2002 to 2004 and is currently serving on The University of Akron Electrical Engineering and Computer Engineering Advisory Council.

Jim is a LEED v2 Accredited Professional and is registered in the State of Ohio, West Virginia, Pennsylvania and Indiana. In 2005, Jim received his Lighting Certification (LC) from the National Council on Qualifications for Lighting Professionals (NCQLP).

The following is a list of projects for which Mr. Eckman was Electrical Project Manager:

- **Marshall University,** Huntington, WV – Biotechnology Science Center, Buskirk Hall Fire Protection, Byrd Institute, Holderby Hall Renovations, Marshall Commons Housing Complex and Capstone Housing project.
- **The University of Akron,** Akron, Ohio - Bulger Residence Hall 1998 Renovation, Exchange Street Residence Halls, Honors Student Housing Electrical Site, Leigh Hall and Spanton Hall
- **Cleveland State University,** Cleveland, Ohio - Dean's Suite, Honors Program, Media Center and Rhodes Tower 2nd & 3rd Floor Remodel
- **Kent State University,** Kent, Ohio - Cunningham Hall Electrical

MICHAEL P. WESNER, P.E., LEED AP
VICE PRESIDENT – PRINCIPAL - MECHANICAL ENGINEERING

PERSONAL RESUME

Mike is a graduate of Ohio State University in Columbus, Ohio. He received a Bachelor of Science Degree in Mechanical Engineering in 1981 and later that year joined the consulting firm of Scheeser Buckley Mayfield LLC which was then known as Scheeser*Buckley*Keyser.

During his first few years with the firm, Mike was heavily involved with the Title III of the National Energy Conservation Policy Act (NECPA). This governmental program was established as a cost sharing energy conservation grant programs. This program provided funds to study the operation of schools and hospitals to determine if there were ways to reduce their energy consumption. The program then funded energy conservation measures identified in the reports. As a result of this involvement in many audits and retrofit programs for public school buildings, college and university buildings and hospitals, Mike gained valuable experience in formulating and implementing energy conservation programs in buildings that result in real world savings. This experience carries on in the work that Mike does today.

Since the mid 1980's Mike's project experience has been concentrated in the following areas:

- Large hospital Expansion and remodeling projects.
- Hospital Boiler Plant / Chiller Plant replacement projects.
- University Laboratory projects, both new construction and renovation.
- University Classroom Facilities
- University Dormitory Facilities
- Animal research facilities.
- Secondary education facilities.
- Industrial facilities.
- Telephone / Communications buildings
- Recreation/Athletic Fitness Centers
- Worship Centers

On all of the above facility types, Mike has acted as the Principal in Charge for the firm. The Principal in Charge (PIC) is the single point of contact and is responsible to make sure the project gets done on time and on budget.

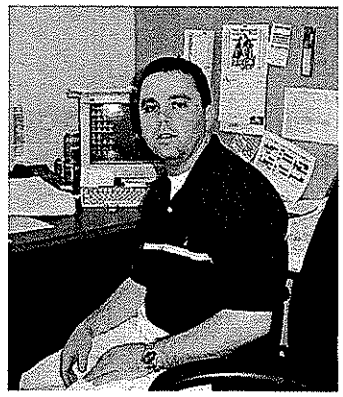
Other types of project experience Mike has had are listed as follows:

- Projects where SBM was the prime design professional hired by the Owner. Typically this has been for chiller plant/boiler plant or other type of main A/C system replacement. This work involved hiring the sub-consultants, preparing the budget/schedule, writing the "front end" specification documents and doing all of the day to day construction administration.
- Projects where SBM was hired to diagnose and correct mechanical system problems
- Projects where SBM was hired to do Mechanical and Electrical Construction Cost Estimating

Mike is a LEED™ 2.0 Accredited Professional and a member of ASHRAE, ASPE, NFPA and BOCA.

DOUG CHAPMAN
ELECTRICAL ENGINEER

PERSONAL RESUME



Mr. Chapman attended Bowling Green University and graduated with a Bachelor of Science in Electronic Technology.

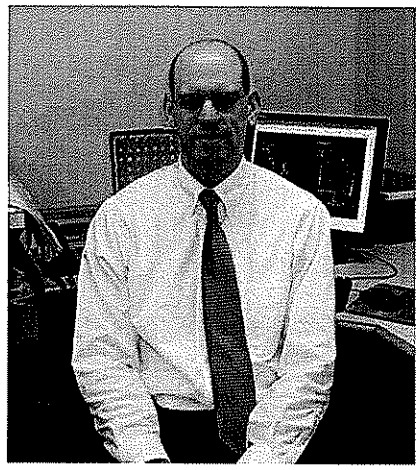
Mr. Chapman started his career at Dynamix Engineering, Ltd. located in Columbus, Ohio. He was responsible for electrical design at educational facilities, churches, outpatient clinics, tenant occupancies and offices. He also followed projects in to construction by reviewing shop drawing submittals.

Mr. Chapman then relocated to Cleveland, Ohio and worked at Bacik Karpinski Associates, Inc. He assisted with branch circuit design for both new construction and renovation projects. He was also involved in the specification process and assisted with transferring engineering red-lines to AutoCad.

Mr. Chapman joined Scheeser Buckley Mayfield LLC in September 2001 and has been actively involved with many projects. He has been responsible for branch circuit design and configuration of new and renovated facilities including outpatient clinics, hospitals, educational facilities and offices. He has assisted with specification of lighting fixtures and corresponding lamping based on space function and client need and specification of over current, short circuit protection and safety devices for HVAC, plumbing, kitchen and other types of equipment. Mr. Chapman also assists with the design of various electrical systems, including nurse call, local intercom, and dimming.

KIRBY A. STOLLER, P.E., LEED AP
MECHANICAL ENGINEER

PERSONAL RESUME



Mr. Stoller attended the University of Akron and received his Bachelor of Science in Mechanical Engineering, December 1999. Upon graduation, Kirby joined the firm of Scheeser Buckley Mayfield LLC. He passed his Professional Engineering License exam in April 2004.

During college, Kirby was involved in the University of Akron's co-op program and worked at Rubbermaid, Inc, in Wooster, Ohio. He assisted with design projects to support the manufacturing plant and created plant layout drawings for the installation of injection molding machines, automation, and robots. He also met with vendors, obtained quotes, and placed orders to meet project deadlines.

Since working for Scheeser Buckley Mayfield LLC, Kirby has served as the mechanical engineer on a wide variety of projects, primarily for health care facilities and universities and has experience in all aspects of the design of mechanical systems for buildings, including HVAC, Plumbing, and Fire Protection. He has also performed project management tasks within the office on many of his projects to coordinate the design team's efforts.

Larger projects in Kirby's background include a 175,000 square foot Patient Bed Tower and 50,000 square foot Cancer Center Building for Cabell Huntington Hospital located in Huntington, WV with total construction budgets of $55 million and $18 million respectively; 140,000 square foot ($42 million) Bio-Technology Lab building for Marshall University located in Huntington, WV; 80,000 square foot ($18 million) medical office building for Marshall University School of Medicine located in Huntington, WV; 260,000 square foot office building for Fed Ex located in Green, OH; 150,000 square foot church for The Chapel located in Green, OH.

Kirby designed the mechanical systems for the renovation of Douglass High School which is listed in the National Register of Historic Places. The project consisted of a total overhaul of the existing building systems. The interior was renovated to house medical offices and classrooms.

Other projects that Kirby has designed include:

- 15,000 square foot Dialysis Clinic for Cabell Huntington Hospital
- 28,000 square foot facility for St. Timothy's Lutheran Church
- 60,000 square foot office building renovation for the VA
- Additions and renovations to St. Mary's Correctional Center dining facility
- Emergency generator replacement for First Energy
- Multiple boiler, chiller, cooling tower, and air handling unit replacement projects.
- Numerous hospital renovation projects

SCHEESER BUCKLEY MAYFIELD LLC

EXPERIENCE

Holiday Inn Express – Staybridge Florida
Holiday Forum Express – Fort Myers, Florida
Holiday Inn Express – Arcadia, Florida
Candlewood Suites – Sun City, South Carolina

Scheeser Buckley Mayfield provided mechanical, electrical, plumbing, and fire protection design to these 100 -124 room multiple story hotels. These projects included swimming pools, small kitchens, conference rooms, residential and commercial laundry areas, great room with atrium, and fitness centers. Different mechanical, plumbing, and fire protections system were utilized in these project based on the available of gas (natural or propane), domestic water service, and reliable electrical power. Electrical design included site lighting, service entrance and lobby/kitchenette design. These buildings design had lighting protection, security, telecommunications and fire alarm systems. The electrical portion of the elevator systems where also included.

Altercare Assisted Living Campus
Brimfield, Ohio

This 122 bed Assisted Living / Nursing Home project is located in a relatively undeveloped area that required extension of public utilities (natural gas, electric, sewer and water) to the site. The campus setting included multiple buildings; main nursing home building, maintenance garage, and storage building. The site work included a cut and fill plan due to extreme topography changes throughout the site and public and staff parking spaces. Stormwater management design included extended dry detention pond and bioretention cells.

The HVAC system includes PTAC units at each resident room with one central air handling unit with electric reheat to provide heating and cooling to the remainder of the building. The air handling unit is a constant volume gas fired DX rooftop packaged air handling unit that serves a range of spaces including kitchen, office, therapy, bathing, corridors and dining spaces. For spaces that require further temperature control, electric reheat coils have been added. Type I and Type II kitchen hoods have been designed for the main kitchen and the therapy kitchen.

The plumbing system included the design of two gas fired storage tanks water heaters to serve the needs of the kitchen, resident rooms, baths and restrooms. A new natural gas and domestic water service were extended into the building with the required metering and backflow prevention required. Gas piping was extended to the air handling unit and to the kitchen to serve the kitchen equipment.

The building is a fully sprinkled building with a wet pipe system. The attic spaces of the building were served by a dry pipe system. A new fire main was extended into the building to serve the wet and dry sprinkler systems.

Altercare Hilliard and Canal Winchester
Assisted Living

Scheeser Buckley Mayfield LLC has provided mechanical, electrical, civil, and telecommunications engineering services for these new assisted living facilities. Each facility is an 80-90 bed single-story;

full service nursing home which includes recreation facilities, kitchen, conference rooms, and support offices. State of the art security and monitoring system, zoned domestic water heating, and zoned HVAC system were included with this design. Site design included onsite retention facilities with water features, public turn lanes, traffic control devices, and extension of public utilities.

The HVAC system includes PTAC units at each resident room with one central air handling unit with electric reheat to provide heating and cooling to the remainder of the building. The air handling unit is a constant volume gas fired DX rooftop packaged air handling unit that serves a range of spaces including kitchen, office, therapy, bathing, corridors and dining spaces. For spaces that require further temperature control, electric reheat coils have been added. Type I and Type II kitchen hoods have been designed for the main kitchen and the therapy kitchen.

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Sisters of Humility of Mary
Villa Maria
Conference Center
Pennsylvania

Project consisted of selective demolition, renovation and addition to the existing convent building. The project included approximately 16,000 square feet of space including multi-media conference rooms, support offices and a new entrance. The lobby included water features as well as lighting designs (including day lighting) to accentuate the exposed wood laminate structure of the high bay and feature artwork. The project included extensive stabilization and re-use of existing steam and power utilities that needed to be protected and kept in service during demolition. Additionally studies were done to carefully evaluate the necessity of adding chilled water capacity to the campus, which eliminated the need to purchase a new chiller. The project included two new multi-zone air handlers, new central water softeners and numerous life safety, telecom and power upgrades.

Kent State University
New Residence Halls
Kent, Ohio

This project consists of the addition of six new Residence Halls on the KSU main campus for approximately 1200 students. Total square footage of the new buildings is approximately 37,500 square feet. The HVAC systems for the Residence Halls utilized individual four-pipe heating and cooling fan coil units in each of the student areas. A rooftop heat recovery air-handling unit was designed to supply air into the building, while using the exhaust air to for heat recovery. Campus chilled water and steam was extended to a common mechanical room for each set of buildings. The plumbing systems included the installation of a main domestic and fire protection water service entrance along with steam to hot water domestic water heaters to serve the buildings. The electrical scope of work included tying into a new campus main medium voltage loop and extending to outdoor pad mounted transformers for each of the buildings. A new switchboard was installed in individual electrical rooms within each residence hall. The electrical distribution system was a 208/120 volt distribution system with double tub panelboards located on each floor. Exterior lighting consisted mainly of metal halide sources with strict cutoff distribution patterns to control glare into the student rooms, while maintaining a high light level on walkways and "hiding" places. A security system was installed in each resident hall with card readers permitting student access. Each building was equipped with a standalone fire alarm system integrated and connected back to the main campus fire/police station. The site design portion of this project included a main storm sewer trunk line that collected runoff from this site and multiple other campus buildings, parking lots and fields. This system was installed through the existing campus and had to be designed through areas of construction fill material and peat. Design criteria included minimal disturbance to existing campus activities including pedestrian and vehicular traffic. A new regional storm water management retention pond and water quality habitat was also designed to enhance storm water outflow quality and to reduce peak storm water runoff. Work included design efforts with the Buffalo District of the Corp of Engineers and the Ohio EPA. The retention pond was designed in conjunction with the school's biology department to preserve and enhance an existing wetland area which served as a natural breeding ground for several types of birds. Additional design work for this project included new parking lots and drives, sidewalks with pavers for fire truck access, grading, natural gas main extension, green space enhancement and basketball and volleyball courts. Site electrical work included parking lot and pedestrian walkway lighting and security boxes.

Marshall University
Student Housing and Dining Hall
Huntington, WV

This project consists of four (4) 40,000 sq. ft, 4-story residence hall buildings. The residence halls are of the "suite" type arrangement. Residence halls contain suites which contain two 2-bedroom suites, four single bedroom suites and four 2-bed type suites. The residence hall buildings are state-of-the-art with all of the amenities, including air conditioning, data ports for local campus internet and internet access, as well as a fire protection system installed throughout the facilities. The HVAC system for the building consists of a four-pipe fan coil system with perimeter hydronic heat. The building also has a central ventilation system which provides mechanical ventilation to all spaces within the building as a central toilet exhaust system.

The dining hall facility is an 18,000 sq. ft. building housing a full kitchen, state-of-the-art serving area, meeting rooms and exercise room. The HVAC system for this facility consists of custom roof-top heating and cooling equipment.

The buildings were designed to comply with the West Virginia Fire Code, NFPA, the BOCA codes and ASHRAE Standard 90.1.

Marshall University
Student Housing
Huntington, WV

This project consists of two (2) 80,000 sq. ft, 4-story residence hall buildings. The residence hall consists of "suite" type living arrangements that include each double occupancy room with its own restroom. Scheeser Buckley Mayfield, LLC provided HVAC, Plumbing, Civil, Fire Suppression and Electrical design services for the facility. The HVAC system for the building consists of packaged through wall unit in each suite along with split systems serving common area. A roof mounted make-up air unit is designed for supplying air into the building. The plumbing system includes the installation of a main domestic and fire protection service entry along with low pressure gas supply, sanitary and storm systems. The fire protection system is designed based upon NFPA13R including a wet sprinkler system and class I manual standpipe system for all exit stairwells. The Electrical design included a new electrical service along with interior and exterior lighting. Lighting was added to illuminate the tennis courts and surrounding areas. The power service includes separate loop feed pad-mount transformers (1 per building), switchboard, and lighting and appliance panel boards. Primary power was extended from the existing campus primary distribution system. Design a structured cabling system to provide horizontal and vertical connectivity for the voice, data and CATV outlets in Marshall University's new Residence Hall. Media included fiber optic, RG-11 and multipair copper inter-building and campus backbones with CAT6 and RG6 horizontal cable.

The buildings were designed to comply with the West Virginia Fire Code, NFPA, the BOCA codes and ASHRAE Standard 90.1.