



April 8, 2010

Mr. Ron Price  
Purchasing Division  
2019 Washington Street East  
Charleston, WV 25305-0130

re: Expression of Interest #DEFK10013  
West Virginia Army National Guard  
Readiness Center and Field Maintenance Shop, Parkersburg WV

Dear Mr. Price:

Enclosed for consideration by the WV Army National Guard is our Expression of Interest to provide Architectural & Engineering Services for the Readiness Center and Field Maintenance Shop to be built in the vicinity of Parkersburg, WV.

Recently we have had the good fortune to complete the design and a significant portion of the construction administration services at the Armed Forces Reserve Center in Kenova, WV. We have also just learned that the nationally renowned Forensic Science Center at Marshall University has won an Honor Award for Design Excellence from the WV Chapter of the American Institute of Architects (AIA), the last phase of which was completed in 2009. Both of these projects were designed and managed by Nathan Randolph, AIA, who is proposed to lead our team on this project.

Nathan and our team have the talent and dedication needed to make this a successful project for everyone involved. In addition to our related public and private sector experience, members of Edward Tucker Architects have participated in the completion of military projects while employed at other firms: The Clarksburg National Guard Armory, the Jane Lew National Guard Armory, the Tri-State Airport Army Reserve Center, and the Air National Guard Reserve Forces Training Center and Squadron Operations Center in Knoxville, TN.

The Project Team section details the staff and firm resources that we have assembled for the Parkersburg facility – the same team currently working on the Armed Forces Reserve Center in Kenova. Long before LEED and green design became popular, we were incorporating practical methods to reduce long term energy consumption and maintenance costs for our clients. Several of our team members are LEED certified should you wish to pursue LEED accreditation on this project. Either way, we are committed to design a functional, durable, easily maintained, and attractive project that will be within your budget and produced on schedule.

We appreciate the dedication and sacrifices made by our United States Military Reserve Units, and it would be our honor to provide these services to the West Virginia Army National Guard on this project.

Thank you for your thoughtful consideration of this Expression of Interest. I look forward to discussing our team approach on this commission with your selection committee.

Sincerely,

EDWARD TUCKER ARCHITECTS, INC.

Edward W. Tucker, AIA

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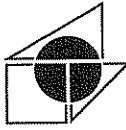
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WV PURCHASING  
DIVISION

916 Fifth Avenue, Suite 208  
Huntington, West Virginia 25701  
304.697.4990 telephone  
304.697.4991 facsimile

etarch.com

# firm profile



## Edward Tucker ARCHITECTS, INC.

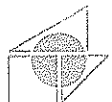
Edward Tucker Architects, Inc. provides full architectural services, including master planning, site analysis, programming, architecture and design, addition/alteration/renovation/adaptive reuse, space planning, surveys and studies and interior design. The firm has experience in a large range of project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

<b>PRINCIPAL:</b>	Edward W. Tucker, AIA
<b>PROJECT MANAGERS:</b>	Walter L. Wilkes, AIA Nathan Jon Randolph, AIA Phoebe Patton Randolph, AIA, LEED AP J.D. Maynard, Associate AIA, LEED AP Josh M. Dygert, Associate AIA
<b>INTERIOR DESIGN:</b>	Heidi Campbell
<b>OFFICE MANAGER:</b>	Lisa Black
<b>CONTACT INFORMATION:</b>	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.

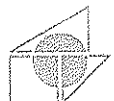
ETA believes that each project requires a unique, tailored response. Assumptions cannot be made without a thorough examination of a project's site and context, budget, and all of the other client needs and parameters that together define the work to be done. Owner/Design Team study of design exemplars, 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.

The same group of architects, engineers and consultants may not be the best team for every project. We also understand that some projects benefit from consultants with specific project type experience. 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.

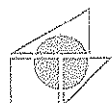
**OPEN COMMUNICATION.** "For the company directory, please dial ..."

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?

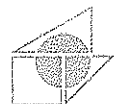
ETA works with clients to define realistic funding and budget realities regarding three key components: Budget, Quality Level and Schedule. Using past project histories, state and national data bases, we develop a construction estimate at project inception and update it throughout the life of the job. 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?

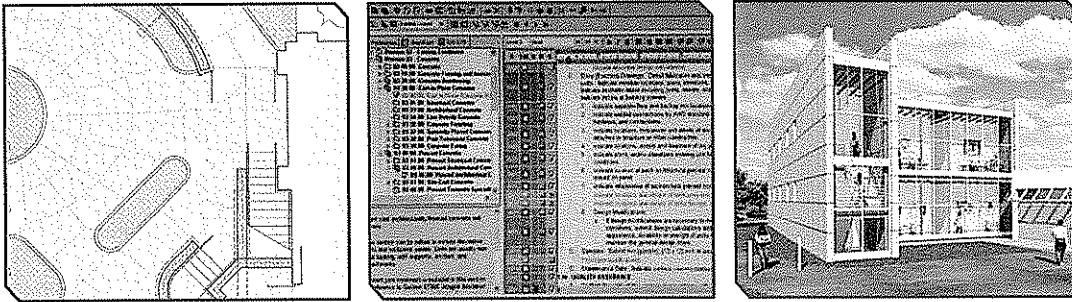
ETA believes that the Project Architect should always administer construction phase duties. The architect who completed the drawings is intimately familiar with the project's overall goals, the client's particular interests and the design documents' intent. We believe this field experience ultimately 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 commitment** 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

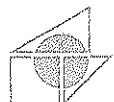
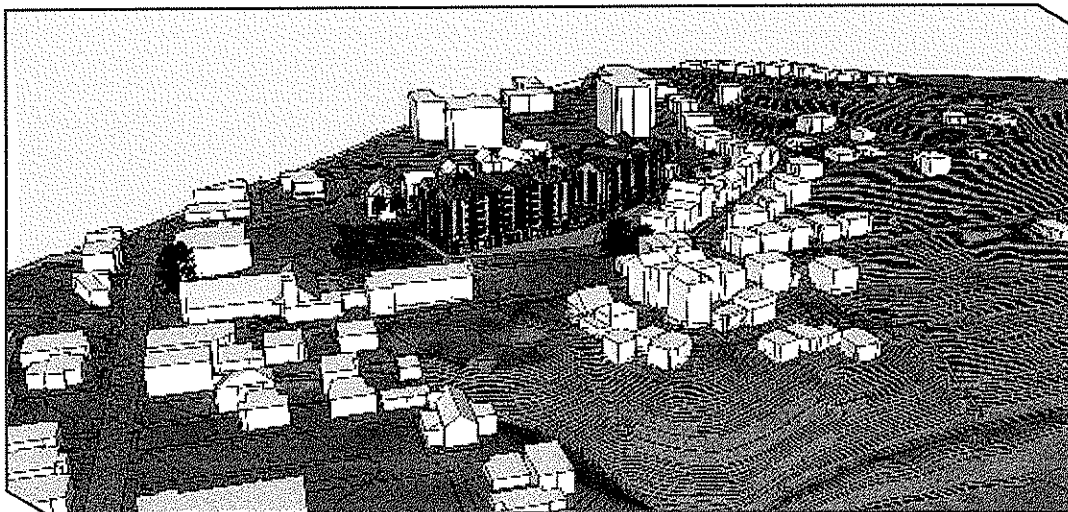
ETA seeks to utilize up to date and reliable technological resources that are appropriate for our firm, our consultants, clients, and each project's application needs. Digital software protocols are ever more important for communications with consultants, contractors and owners.

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 Business 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 AND PAST POSITIONS:

- ▷ Regional Director - Virginias Region, American Institute of Architects (AIA) Board of Directors
- ▷ President, Director - American Institute of Architects (AIA) West Virginia
- ▷ Board of Directors - Huntington Federal Savings Bank
- ▷ Cabell County Historic Landmarks Commission
- ▷ Board of Directors - Huntington Symphony Orchestra
- ▷ Board of Directors - Huntington Rotary Club
- ▷ Executive Board - Tri-State Council - Boy Scouts of America
- ▷ Chair, Church Council - Beverly Hills United Methodist Church
- ▷ City of Huntington Historical Commission
- ▷ Board of Directors - Huntington Habitat for Humanity
- ▷ Chair - City of Huntington Board of Code Appeals

Wally Wilkes, Architect

#### CURRENT AND PAST POSITIONS:

- ▷ Board Member - West Virginia EXPO
- ▷ Treasurer and Director - AIA West Virginia

Nate Randolph, Architect

#### CURRENT AND PAST POSITIONS:

- ▷ Huntington City Council - District 4 Councilman
- ▷ Chair - Young Professionals Committee
- ▷ Commissioner - Huntington Urban Renewal Authority
- ▷ Board Member - St. Joseph Central High School Advisory Board
- ▷ Board Member - Cabell Huntington Coalition for the Homeless

Phoebe Patton Randolph, Architect

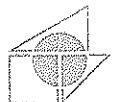
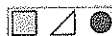
#### CURRENT AND PAST POSITIONS:

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

Lisa Black, Office Manager

#### CURRENT AND PAST POSITIONS:

- ▷ Board of Directors - Musical Arts Guild



# firm profile :: HERITAGE

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

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.

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.

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.

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.



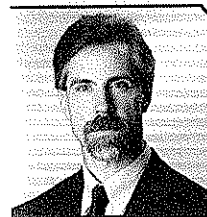
Albert F. Tucker



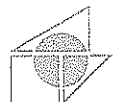
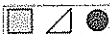
Levi Johnson Dean



S. Brooks Dean &  
E. Keith Dean

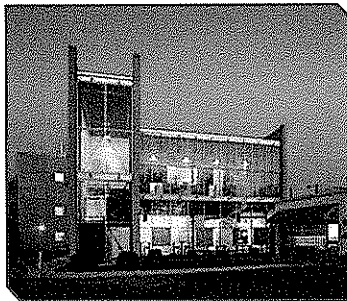
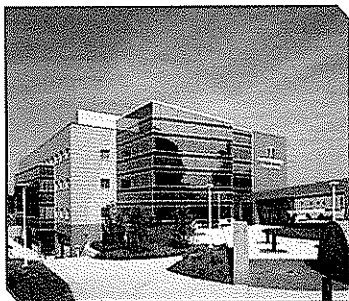


Edward W. Tucker





# 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 HEALTHCARE 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

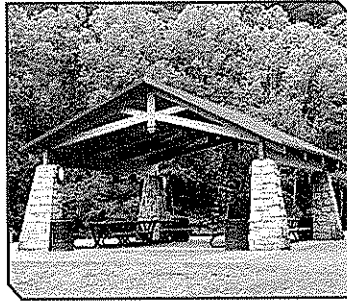
## Commercial

### 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

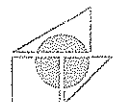
Huntington, West Virginia

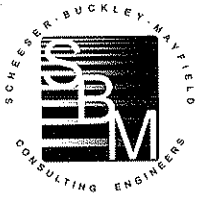
- EMS Station No. 2
- EMS Station No. 6

### CABELL COUNTY PUBLIC LIBRARY

Huntington, West Virginia

- Salt Rock Public Library



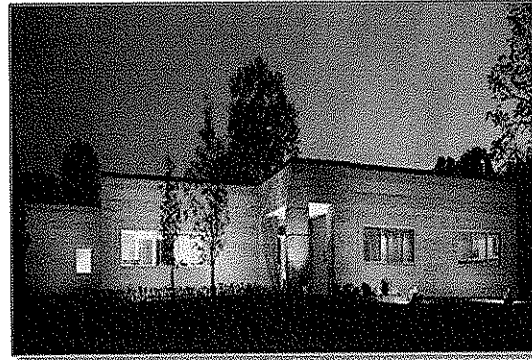


**SCHEESER  
BUCKLEY  
MAYFIELD LLC**  
Consulting Engineers

**Offering Mechanical, Electrical,  
Civil and Telecommunication  
Consulting Engineering Services**

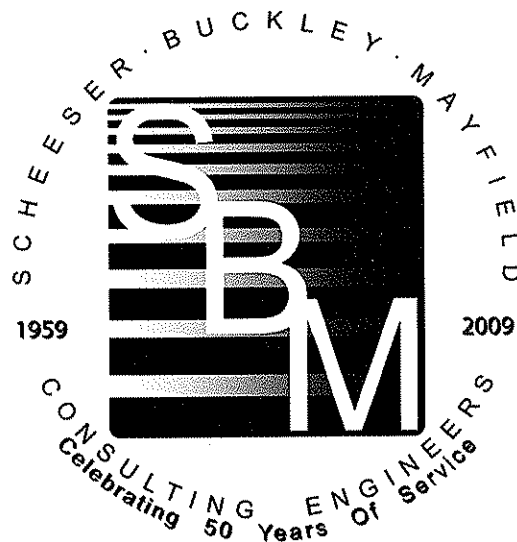
## **ABOUT THE FIRM**

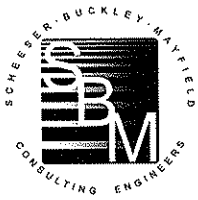
**Scheeser Buckley Mayfield LLC** is an Ohio-based Consulting Engineering firm that serves clients throughout Ohio and the surrounding states. The firm was established in 1959 by Walter L. Scheeser and Edwin J. Buckley, specializing in the design of mechanical systems for the construction industry. The 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*

### **Telecommunications Services**

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

### **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*

### **Types of Facilities**

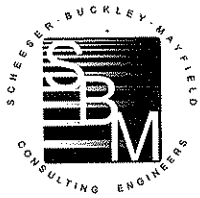
*Medical  
Educational  
Institutional  
Commercial  
Industrial  
Laboratory Design  
Computer Room Design  
Corrections Facilities*

### **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*

### **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**

<u>Name</u>	<u>Title</u>	<u>Experience</u>
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### **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	8 years
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

# firm profile

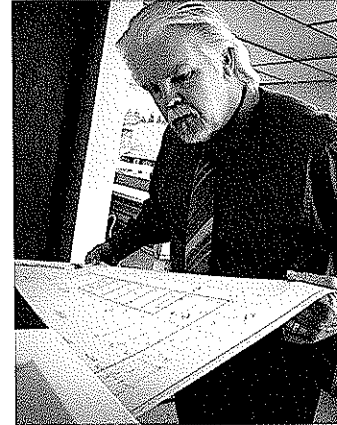
## Introduction

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.

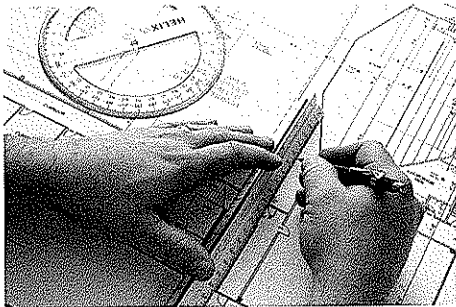
Roger Randolph maintains an active role as project manager on a variety of municipal, structural and land development projects. His wealth of knowledge and experience is a valuable asset to the company's next generation of engineers and designers.



## 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

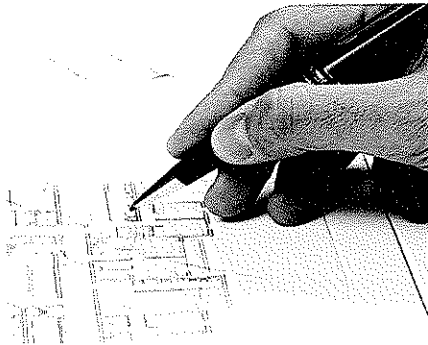
plant; site designs for some of the largest retailers in the United States; and site designs for large, single- and multi-family residential subdivisions, townhouses and apartment complexes, including a 250-unit gated community near Charleston, W.Va.

## 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.



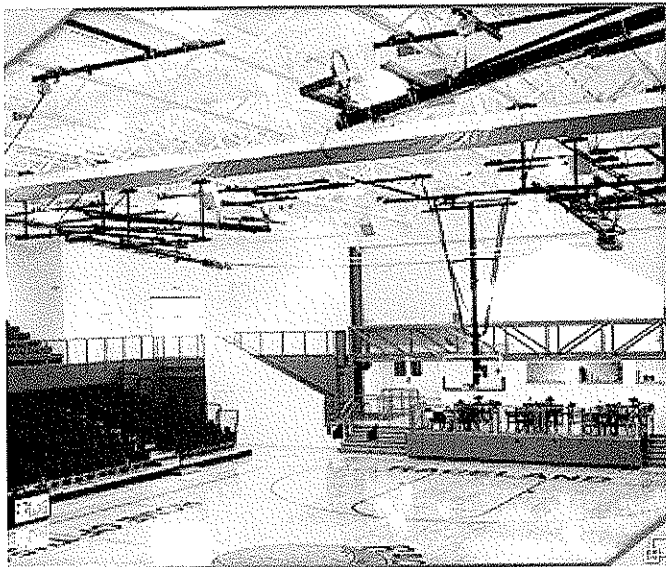
# building design



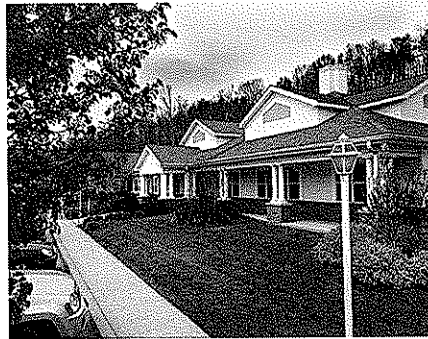
The design of pre-fabricated buildings is a niche that we have developed through the years by working closely with several building manufacturers. Our staff has provided unique solutions on a range of challenging building designs ranging from heavy industrial warehouses to churches. This extensive experience 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



# land development

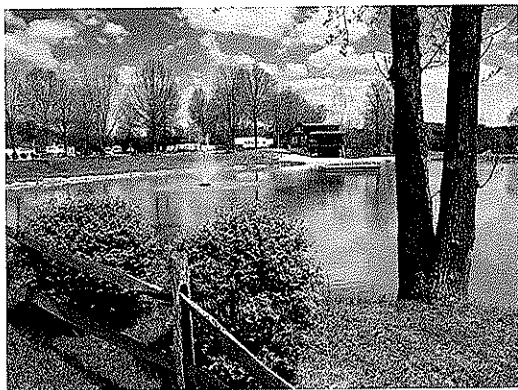


Randolph Engineering has guided many land development projects from the conceptual stage through final design, to construction. We provide engineering design services for residential, commercial and industrial developers as well as governmental agencies. Our talented and knowledgeable staff of engineers 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
- Utility Design
- Site Grading
- Stormwater Management
- Erosion & Sediment Control Plans

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.





# 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

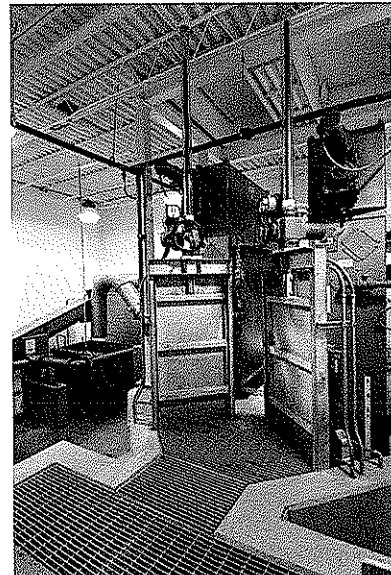
- Water Treatment Plant Design
- Distribution System Modeling and Design
- Pump Station Design
- Storage Facility Design
- System Rehabilitation and Expansion
- Permitting

## 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



# 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 specialize in the following surveying services:

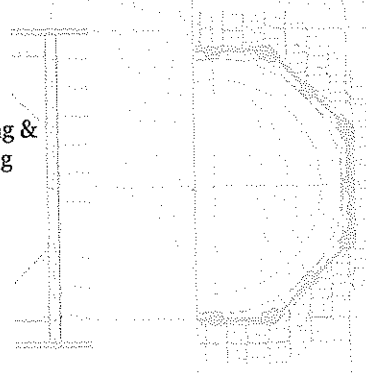
- Boundary Surveys
- Construction Layout
- Global Positioning Surveys (GPS)
- Land Title Surveys
- Topographic Mapping Surveys
- Aerial Mapping Control
- Elevation Certification
- Research
- R/W Plans
- Easement Plats

Randolph's surveyors utilize the latest technology to provide our clientele with the most accurate services possible.

Our surveyors also stay current with the latest trends by actively participating in professional organizations and continuing education programs.

# project team

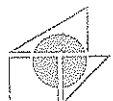
## THE EDWARD TUCKER ARCHITECTS, INC. CORE TEAM CONSISTS OF:

EDWARD TUCKER ARCHITECTS, INC.	Architect	
SCHEESER, BUCKLEY, MAYFIELD, LLC	Mechanical, Electrical, Plumbing & Telecommunication Engineering	
RANDOLPH ENGINEERING CO., INC.	Civil & Structural Engineering	

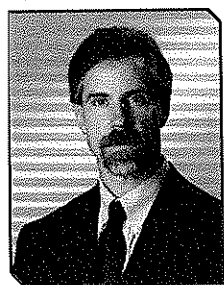
**Edward Tucker Architects, Inc.**, will have overall responsibility for the new West Virginia Army National Guard Readiness Center and Field Maintenance Shop located near Parkersburg, WV, with specific responsibility for client liaison, programming, schematic and design development oversight, construction documents, bidding and construction administration.

To ensure an integrated team structure throughout the project, Edward Tucker Architects, Inc. will be present and provide leadership for all project team meetings, from kick-off to final completion. Close contact with our client while maintaining the same project manager throughout the project has always been the policy of Edward Tucker Architects, Inc.

For project engineering services, we have selected consultants that have ongoing and successful working relationships with Edward Tucker Architects, Inc., having completed numerous projects together. Each team member has extensive experience with similar building types. We have assurances from them that this project will be staffed with professionals who have collaborated with us before.



# project team :: EDWARD W. TUCKER, AIA



Edward W. Tucker, AIA

Edward Tucker  
Architects, Inc.  
Principal

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 begin Edward Tucker Architects, Inc. through the acquisition of Dean and Dean Architects. The renewed firm continued its 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 serves on the Board of Directors of Huntington Federal Savings Bank, is on the Cabell County Historic Landmarks Commission and is active in the Huntington Rotary Club. Past civic involvement includes the Tri-State Council - Boy Scouts of America, Beverly Hills United Methodist Church, Huntington Symphony Orchestra Board of Directors, City of Huntington Historical Commission, Huntington's Habitat for Humanity and Chair of the City of Huntington Board of Code Appeals. Edward resides in Huntington with his wife Lynn. Their son Christopher attends 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

## RELATED PROFESSIONAL EXPERIENCE - WHILE WITH OTHER FIRMS

- **Reserve Forces Operational Training Center**  
McGhee Tyson Air National Guard Base, Knoxville, TN
- **Composite Squadron Operations Building**  
McGhee Tyson Air National Guard Base, Knoxville, TN

## PROFESSIONAL AFFILIATIONS

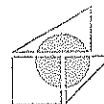
- **American Institute of Architects (AIA) - Director, Region of the Virginias, 2008 - 2010**
- **AIA West Virginia Chapter**  
▸ President, Director-Past President, VP-President Elect, Director, 1998 - 2005

## REGISTRATIONS

- **National Council of Architectural Registration Boards**  
▸ Tennessee (inactive) ▸ West Virginia ▸ Kentucky ▸ Georgia ▸ Ohio

## CIVIC AFFILIATIONS

- **Huntington Federal Savings Bank, Director 2009 -**
- **Cabell County Historic Landmarks Commission, 2008 -**
- **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, Historic Commission & Building Code Board of Appeals, Chair 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

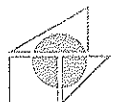
- **Alcon Manufacturing**, Huntington, WV
  - ▷ Phase 1 – Clean Room Expansion
  - ▷ Phase 2 – Production Expansion
  - ▷ Phase 3 – Plant Rehabilitation
- **Cabell Huntington Hospital Pritchard Dialysis Center**  
Huntington, WV
- **Douglass Center** – Historic Restoration/Rehabilitation of Douglass High School  
Huntington, WV
- **West Virginia Army National Guard Readiness Center**  
Kenova, WV
- **Marshall University Forensic Science Center Phases 1-6**  
Huntington, WV

## PROFESSIONAL AFFILIATIONS

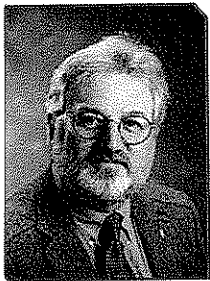
- **American Institute of Architects, West Virginia Chapter**
- **Chair of the Young Professionals Committee, Huntington Regional Chamber of Commerce**
- **Chair of the Young Professionals Committee, Huntington Regional Chamber of Commerce**
- **Current Council Membership City of Huntington**

## 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 Health-care, 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 EXPERIENCE - WHILE WITH OTHER FIRMS

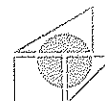
- **Clarksburg National Guard Armory**, Clarksburg, WV
- **Jane Lew National Guard Armory**, Jane Lew, WV
- **Tri-State Airport Army Reserve Center**, Kenova, WV
- **Tri-State Airport Reserve Center Shooting Range**, Kenova, WV
- **Veterans Administration Medical Center**, Beckley, WV  
40 Bed Nursing Unit Addition

## 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**



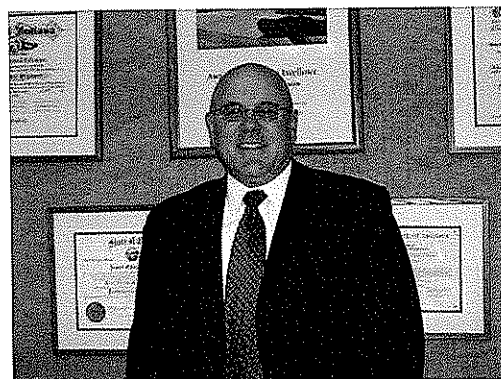
# **JAMES E. ECKMAN, P.E., LC, LEED AP PRESIDENT - ELECTRICAL ENGINEER**

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## **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.



Concurrently, Mr. Eckman taught an electrical engineering course called "Illumination" at The University of Akron.

After leaving KPT, Inc. in 1987, Mr. Eckman gained additional experience in the construction industry by accepting the position of Engineer/Estimator for Thompson Electric, Inc. in Munroe Falls, Ohio. During this engagement, he designed and acted as project manager for several large industrial projects. He also earned electrical contractor licenses in several area communities.

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 is currently an active member of 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. Jim received his Lighting Certification (LC) administered by the National Council on Qualifications for Lighting Professionals (NCQLP) on a national basis to gauge individual 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 as Secretary of 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.

*Scheeser Buckley Mayfield LLC*

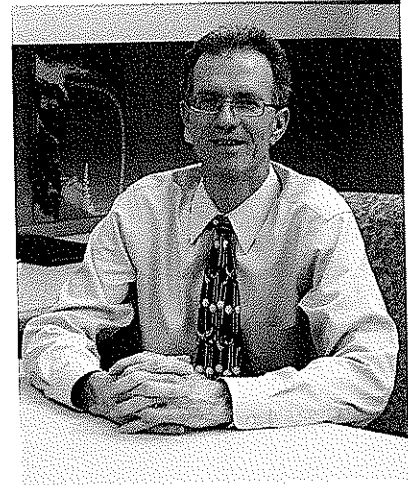
# MICHAEL P. WESNER, P.E., LEED AP VICE PRESIDENT - MECHANICAL ENGINEERING

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## 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 / 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.

*Scheeser Buckley Mayfield LLC*

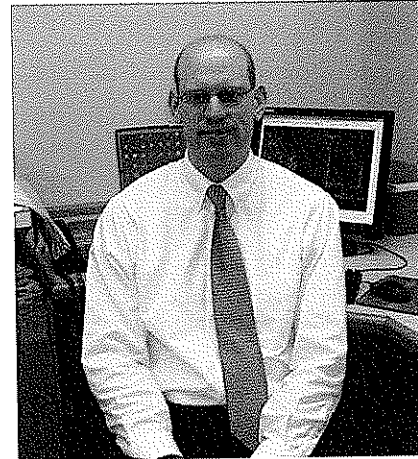


# KIRBY A. STOLLER, P.E., LEED AP MECHANICAL ENGINEER

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## 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 Forensic Science Lab for Marshall University
- 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
- 60,000 square foot Raleigh County Judicial Center
- 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*

**RONALD R. RADABAUGH, P.E., L.C.**  
**PRINCIPAL - ELECTRICAL ENGINEER**

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**PERSONAL RESUME**

Mr. Radabaugh attended the University of Akron here he received his Bachelor of Science in Electrical Engineering Technology in 1996. In 2000, Ron received his Professional Engineering license in the State of Ohio and then in 2001, Ron received his Lighting Certification (LC) from the National Council on Qualifications for Lighting Professionals (NCQLP).



Mr. Radabaugh started his career with Hilscher-Clarke Electric Company 1988. He was responsible for estimating, requisitioning of materials, customer relations, and field support of various industrial and commercial projects. Design experience included layout of construction drawings including embedded conduit routing, exposed conduit routing, conduit templates and sections, conduit and cable schedules, motor control center layouts, power distribution, branch circuiting and lighting design.

In 2001, Mr. Radabaugh accepted a position at Pro-Tech Engineering as a Project Manager. He was responsible for all aspects and phases for multiple projects. He was also responsible for scheduling and supervision of project engineers and information (IS) personnel assigned to assist projects.

Mr. Radabaugh has joined Scheeser Buckley Mayfield LLC as an electrical engineer. He has been involved with a number of various commercial projects. Some major projects that have been designed includes a five story dormitory at the University of Akron utilizing both apartment style housing and dormitory housing, a level 3 biotechnology facility including an animal research area, two state of the art cancer center facilities, a large clinical education facility, and a six story hospital patient tower addition. Other types of projects have included renovation of an existing emergency department, addition of temporary emergency department, renovation of a physical therapy department, addition of a new operating room, addition of invitro-fertilization (IVT) laboratory, upgrade of existing hospital emergency distribution to include 10,000 amp paralleling gear, renovation of existing servery and dining facilities, and renovation and installation of multiple radiology equipment including X-ray equipment, CT scan, PET scan, and linear accelerators.

*Scheeser Buckley Mayfield LLC*

# 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
- U.C.C. Building 14 Structural & Foundation Design
- FAA Control Metering Building - Colorado
- Parkline Manufacturing Facility Building and Site Design
- Central Distributing Warehouse and Office Facility Building and Site Design
- Hobet Mining Warehouse and Office Facility Building and Site Design
- Toyota Motor Manufacturing of WV - Retail Sales Building Design
- Toyota Motor Manufacturing of WV - Plant Expansion
- City of Hurricane W.W.T.P. Upgrade
- Charleston Town Center Parking Structure Inspections
- Rhone-Poulenc Gas Collection Facility Structural Design
- City of Hurricane Water Plant Upgrades
- Massey Energy Headquarters W.W.T.P.
- City of Vienna Water Distribution System Modeling
- Poplar Fork Storm Water Analysis
- City of Eleanor Industrial Park Site Design
- Quality Hardwood Office and Warehouse Facility
- Putnam P.S.D. Office Building Expansion
- Young Builders - AEP Facilities Expansion
- Heritage Equipment Building and Site Design
- KV Fine Jewelers Site and Structural Design

## **Education:**

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

## **Professional Societies:**

American Society of Civil Engineers  
National Society of Professional Engineers

## **Registration:**

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

# 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
- Little General Store Headquarters Structural and Foundations
- FedEx Distribution Facility Structural and Foundations
- Toyota Motor Manufacturing of WV – Building and Foundations
- Pathways Office Building Structural and Foundations – KY
- Sleep Inn Motel Structural and Foundations
- Augusta Engineering Structural Foundations
- Ahern and Associates Construction and Value Engineering
- Marshall University Retaining Walls
- Peerless Brick and Block Company – Various Retaining Walls
- Sheetz, Inc. – Barboursville Retaining Wall
- Tri-State Hotels, Inc. – Cross Lanes Retaining Wall
- Laboratory Corporation – Roof Analysis and Load Rating
- WVU Tech – Athletic Facility Planning
- 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

## Certification:

N.H.I. – Bridge Inspection Team Leader

## Registration:

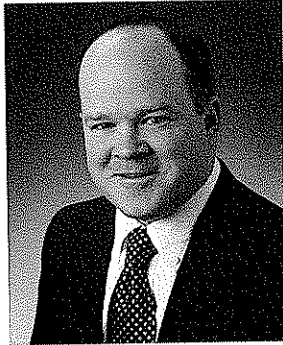
P.E. – West Virginia

## Professional Societies:

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



# 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
- Land Use Planning
- Hydraulic Analysis - Permitting

## **Representative Project Experience:**

- Massey Coal Services Headquarters Site Design
- The Ridges at Rabel Subdivision Site and Permitting Design
- S&P Harley Davidson Dealership Site and Permitting Design
- Tractor Supply Store Site Design (2)
- Advance Auto Store Site Design
- Castleknock Ridge Subdivision Storm Water Management
- Copart, Inc. Hurricane Facility Site and Permitting Design
- FedEx Distribution Center Site Design & Storm Water Management
- Toyota Motor Manufacturing of WV - Storm Water Analysis
- Abingdon, VA Federal Courthouse Perimeter Security Site Design
- Kanawha Valley Fine Jewelry Site Design
- Upon Construction Company - Mobile Home Park Site Design
- Eagleview Subdivision Storm Water Management
- Cartee Land Development Company - Taco Bell Restaurant Site Design
- Cartee Land Development Company - Arby's Restaurant Site Design
- B.W. Painter Company - KFC Restaurant Site Design
- Martinsburg, WV - ATF Facility Parking Expansion

## **Education:**

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

## **Certification:**

N.H.I. - Bridge Inspection Team Leader

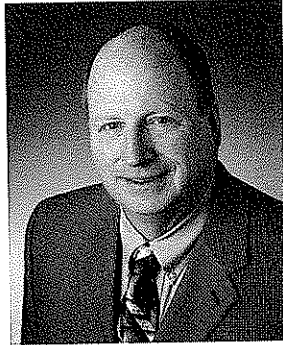
## **Registration:**

P.E. - West Virginia, Virginia

## **Professional Societies:**

American Society of Civil Engineers  
Society of American Military Engineers

# 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:**

- Castleknock Ridge Subdivision Design
- The Ridges Gated Community Design
- Putnam County Parks & Recreation – Valley Park Expansion
- Bloomingdale Subdivision Design
- Pray Construction – McJunkin Warehouse Expansion Site Design
- Massey Coal Services Headquarters Site Surveying
- Sable Point Townhouse Complex Site Design
- Rite Aid Corporation Site Designs (40)
- Westover Estates Subdivision Site Design
- Deer Valley Town House Development Site Design
- Standard Foods Industrial Complex
- Liberty Square Site Surveys and Permitting
- Cartee Land Development Company Site Design
- Dismas Charities, Inc Site Design
- Parkline, Inc./Eleanor Industrial Complex
- Eagleview Subdivision Design
- Glen Oaks Subdivision Design
- Tri-State Hotels – Holiday Inn Express Site Design
- Tasty Blend Foods Industrial Complex

## **Education:**

A.S. West Virginia Institute of Technology, 1971

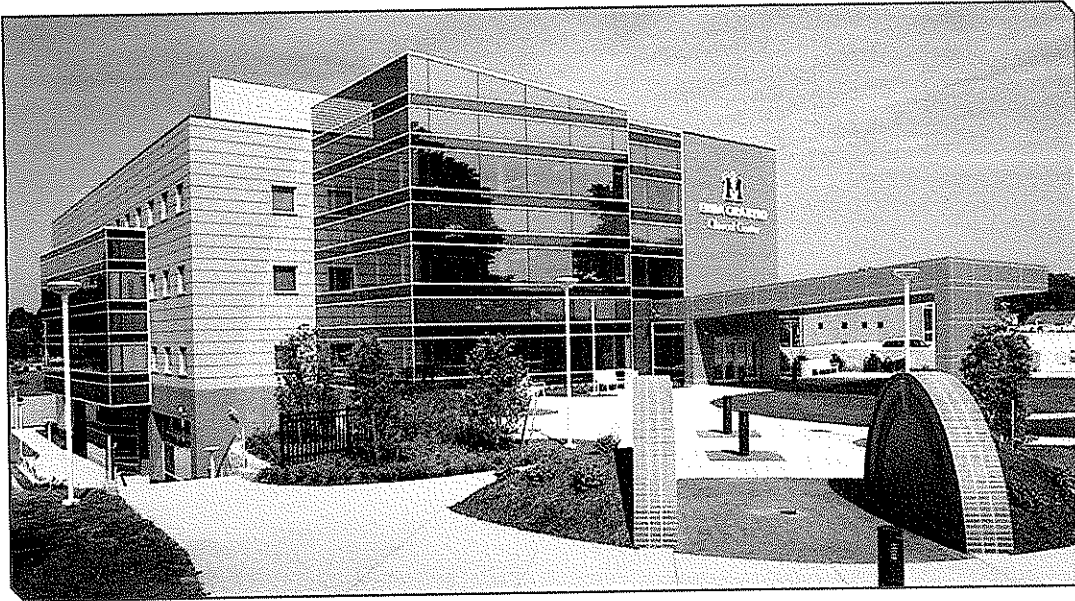
## **Registration:**

P.L.S. – West Virginia

## **Professional Societies:**

West Virginia Society of Land Surveyors

# relevant experience :: HEALTHCARE AND HIGHER EDUCATION



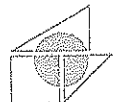
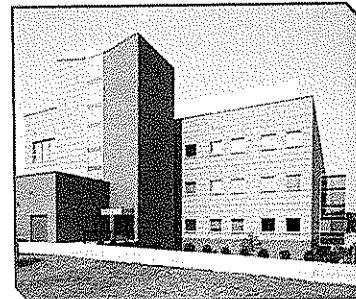
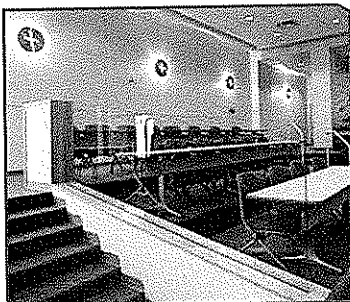
## Marshall University Byrd Clinical Center

Huntington, West Virginia

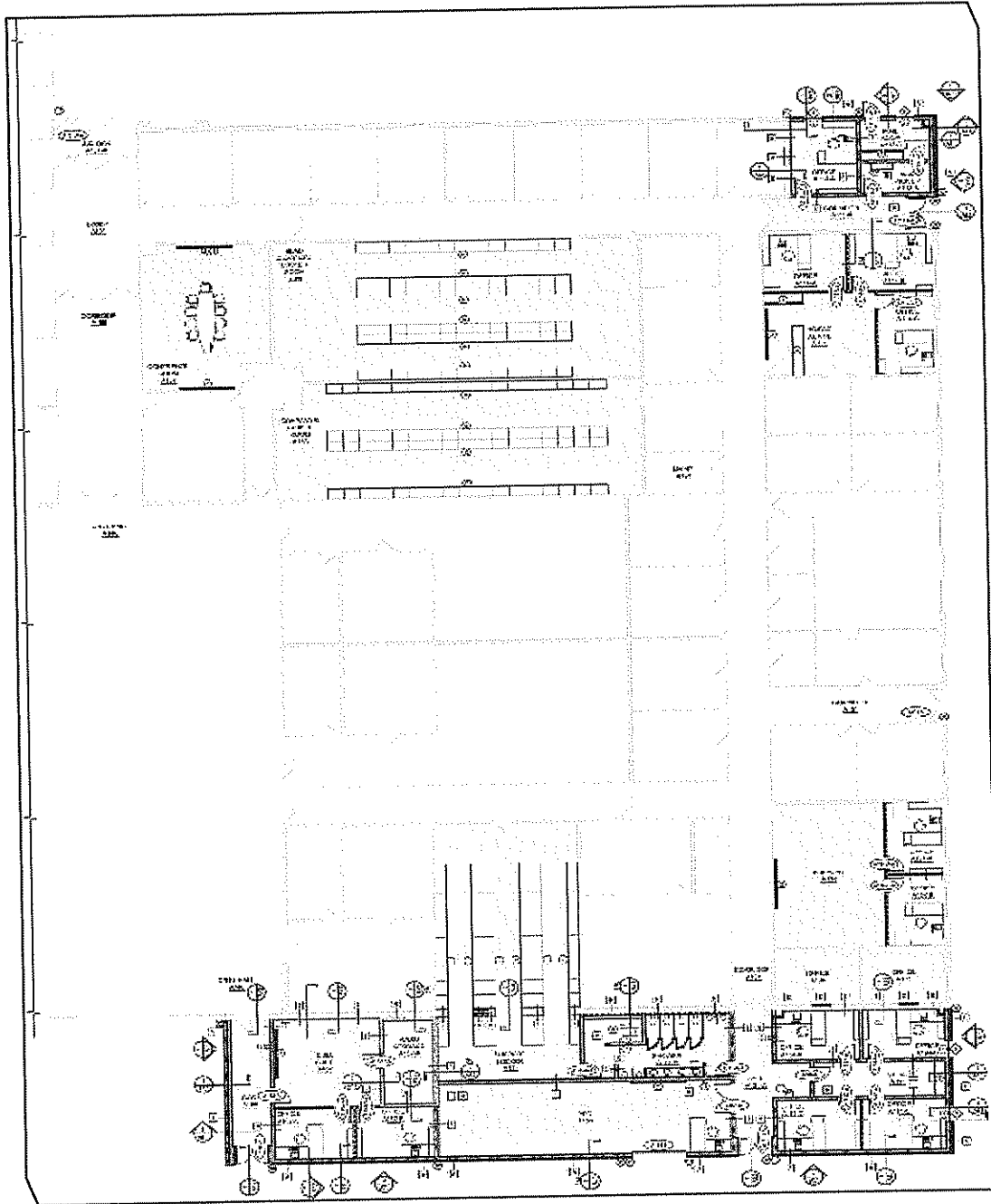
Edward Tucker Architects, Inc. served as lead architect for this 80,000 square foot health care and higher education facility. ETA partnered with Freeman/White, a Charlotte, NC firm specializing in healthcare design. Freeman/White provided design and consulting services in the schematic design and design 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 utilizes 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.



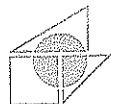
# relevant experience :: TRAINING & EDUCATION



## Renovations & Additions to the Armed Forces Reserve Center

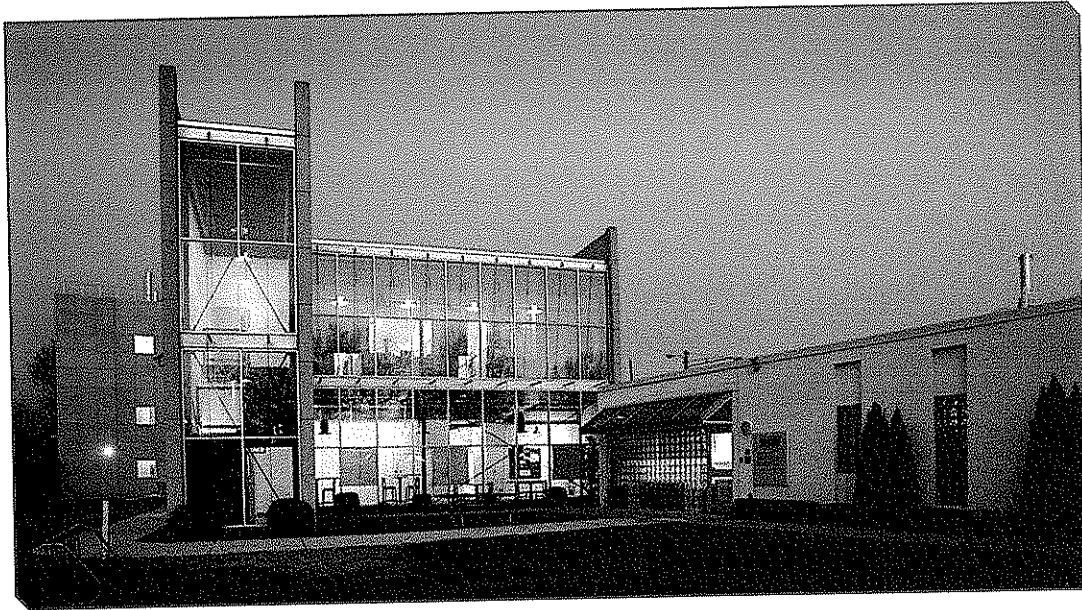
Tri-State Airport - Kenova, West Virginia

The Armed Forces Reserve Center in Kenova, West Virginia expanded their operational capabilities with a 5,000 sf addition and renovations to the existing interior. Their readiness level was increased with new locker rooms, shower facilities, offices, warehousing, secured site access, wheeled equipment storage, and emergency power. Detailed design cost estimating allowed the West Virginia Army National Guard to maximize their budget and afford more construction than expected.





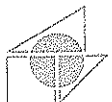
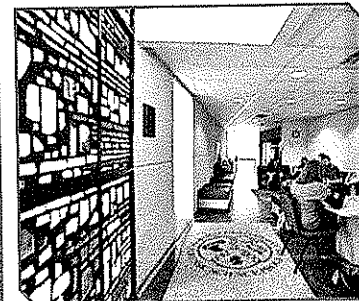
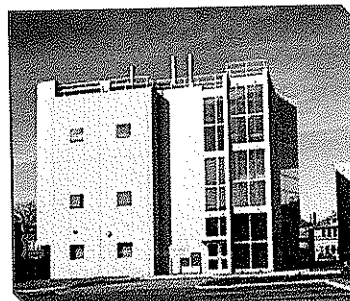
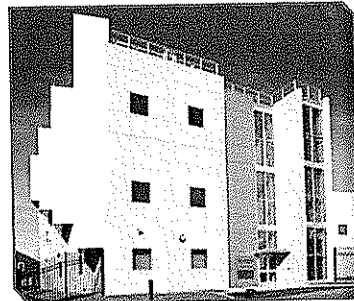
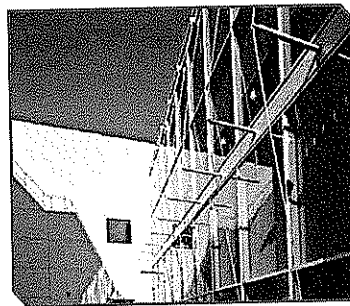
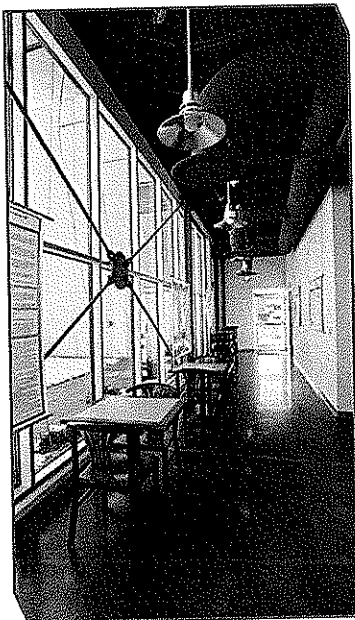
# relevant experience :: HIGHER EDUCATION



## Marshall University Forensic Science Center

Huntington, West Virginia - (3 Major Phases)

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. The third phase is a 3 story, 16,000 sf teaching laboratory, classroom and business incubator building designed to complement the 2 story addition.



# relevant experience :: INTERIM SORT FACILITY

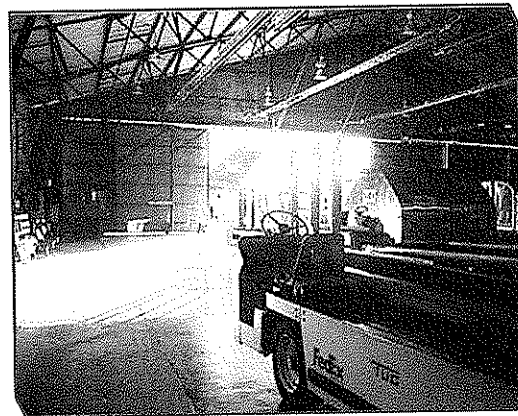
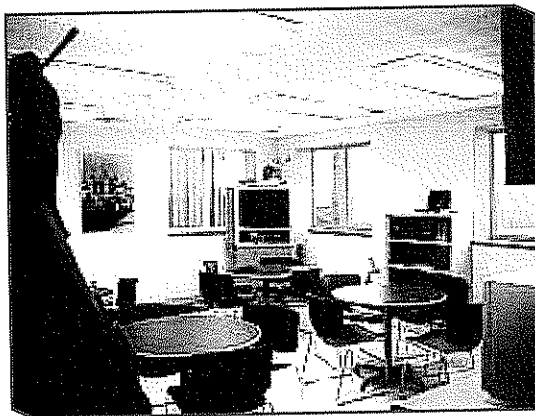


## Federal Express Corporation - Tri-State Airport Authority

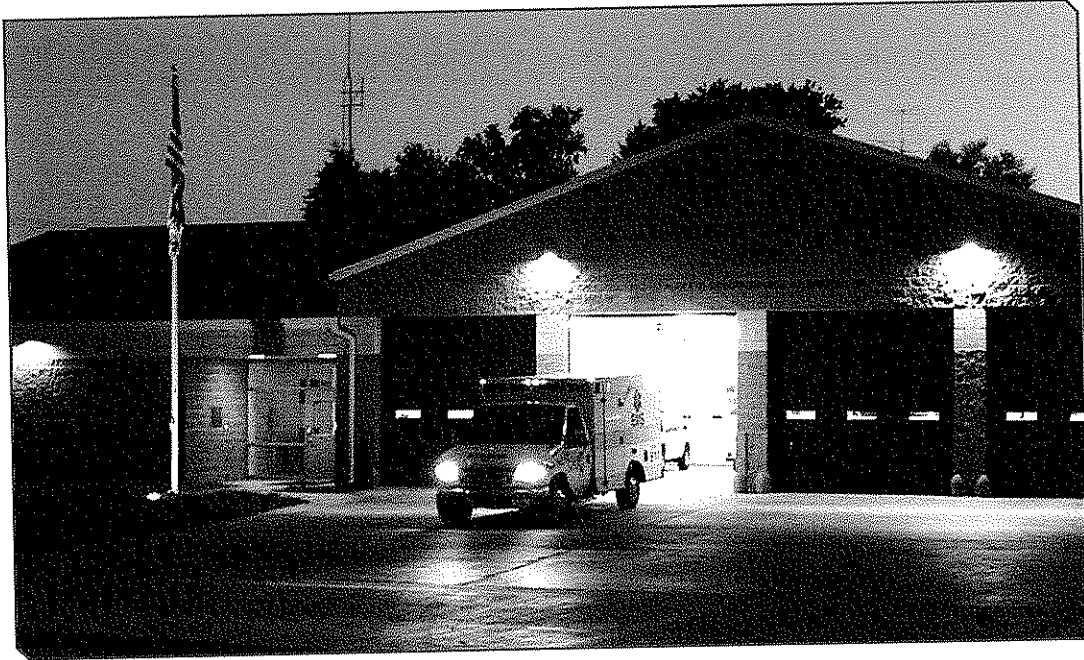
Huntington, West Virginia

This existing hangar building at Tri-State Airport was extensively renovated to create a new Interim Sort Facility for Federal Express Corporation. All new mechanical, plumbing and electrical systems were added to the 14,300 sf steel structure to accommodate distribution equipment, sort areas, offices, break and support spaces. Work also included 23,000 sf of approach area pavements with 5 new loading bays, truck docks, overhead doors and new windows.

Of special note was the project team's ability to accomplish the work within a very tight time frame. While the construction delivery method was traditional design-bid-build, the entire project was still completed in less than 7 months, including design, reviews, approvals, bidding, construction and move-in.



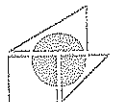
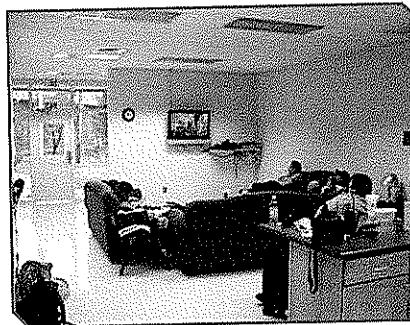
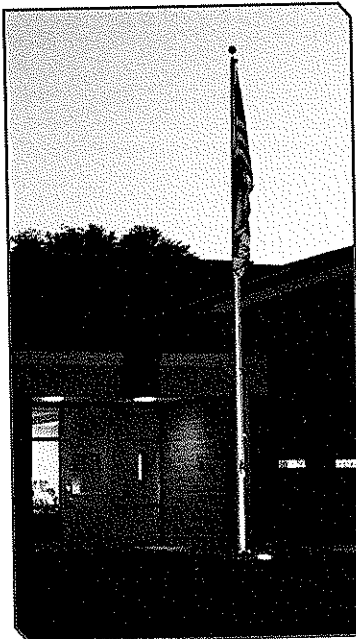
# relevant experience :: PUBLIC



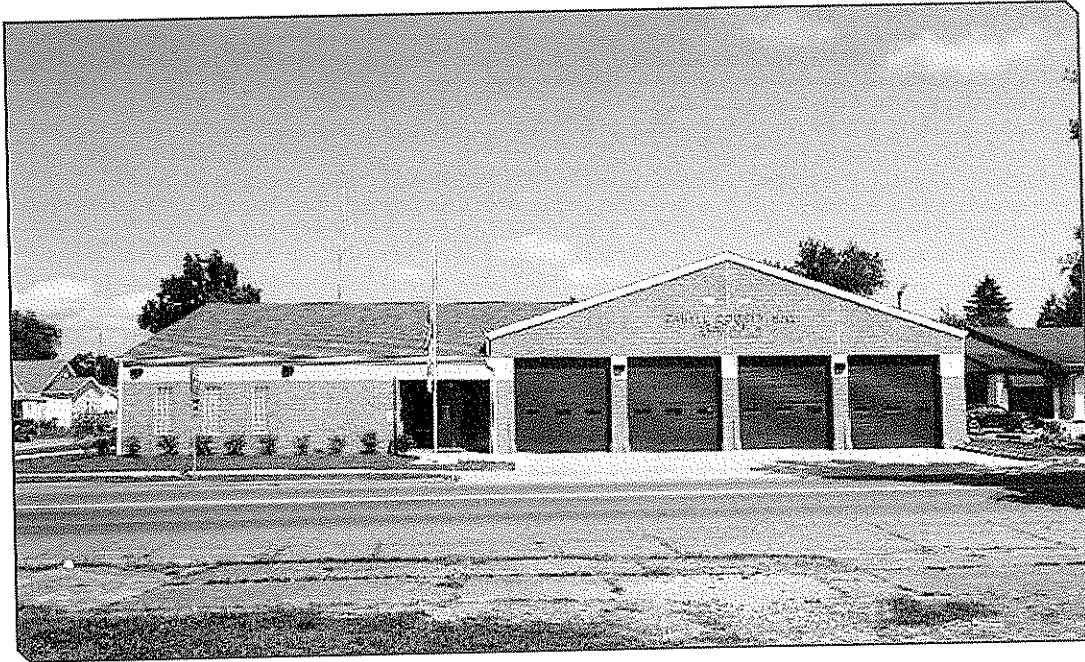
## New Facility for the Cabell County EMS Station #2

Huntington, West Virginia

The Cabell County Commission selected Edward Tucker Architects, Inc. to design a new, one story, 6,350 SF EMS station in the Gallaher Village Neighborhood of Huntington. EMS Station #2 is the largest in Cabell County and the only facility that contains four ambulance bays that can accommodate a total of eight emergency vehicles. The aesthetic appearance and design of the station focused on being sensitive to the surrounding residential neighborhood; with attention to scale, roof configuration and material selection. The interior layout of the station allowed for an open floor plan within the living spaces and created a flexible bedroom configuration that could adjust to varying gender ratios.



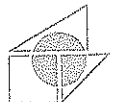
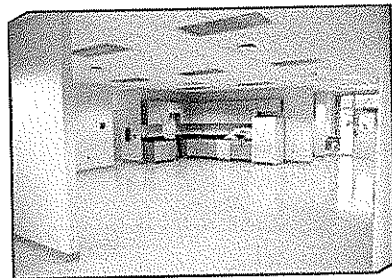
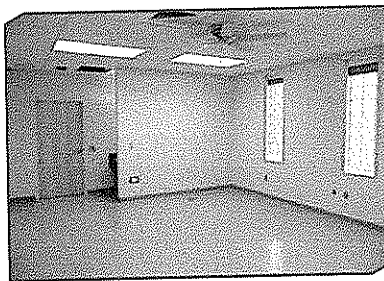
# relevant experience :: PUBLIC



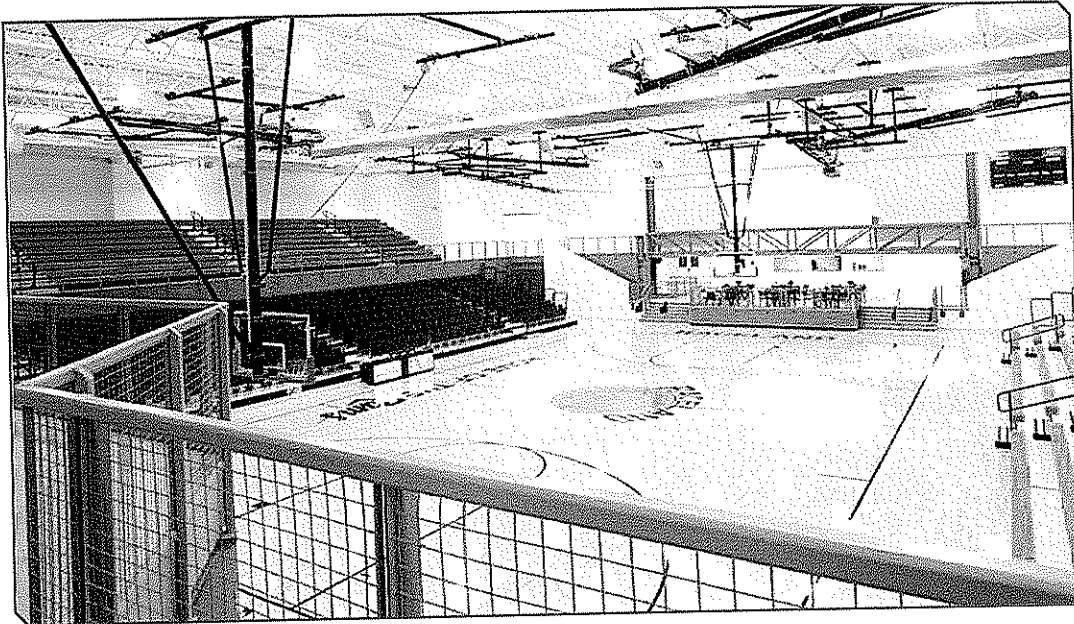
## New Facility for the Cabell County EMS Station #6

Huntington, West Virginia

The Cabell County Commission selected Edward Tucker Architects, Inc. to design a new, one story, 6,645 SF EMS station in the West End of Huntington. The location is vital to the Cabell County Emergency Medical Services, providing access to Interstate 64 and services to both Cabell and Wayne Counties. The design of EMS Station #6 is similar to Station #2 and contains four ambulance bays that can accommodate a total of eight emergency vehicles. The interior layout of the station allows for an open floor plan within the living spaces and creates a flexible bedroom configuration that can adjust to varying gender ratios.



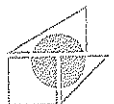
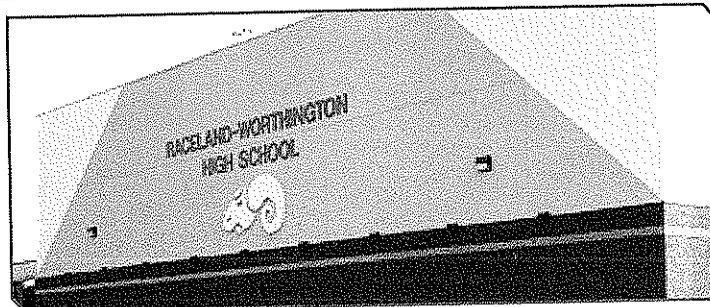
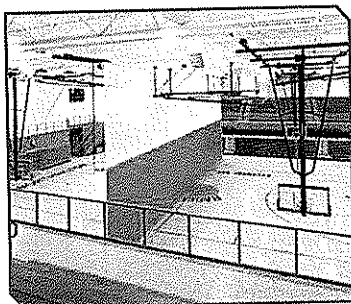
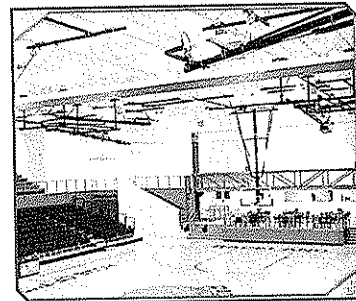
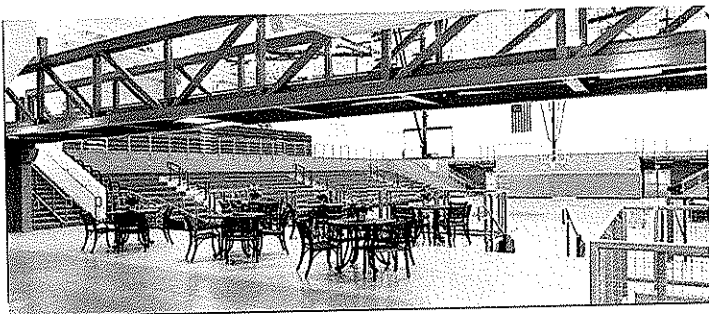
# relevant experience :: ACADEMIC



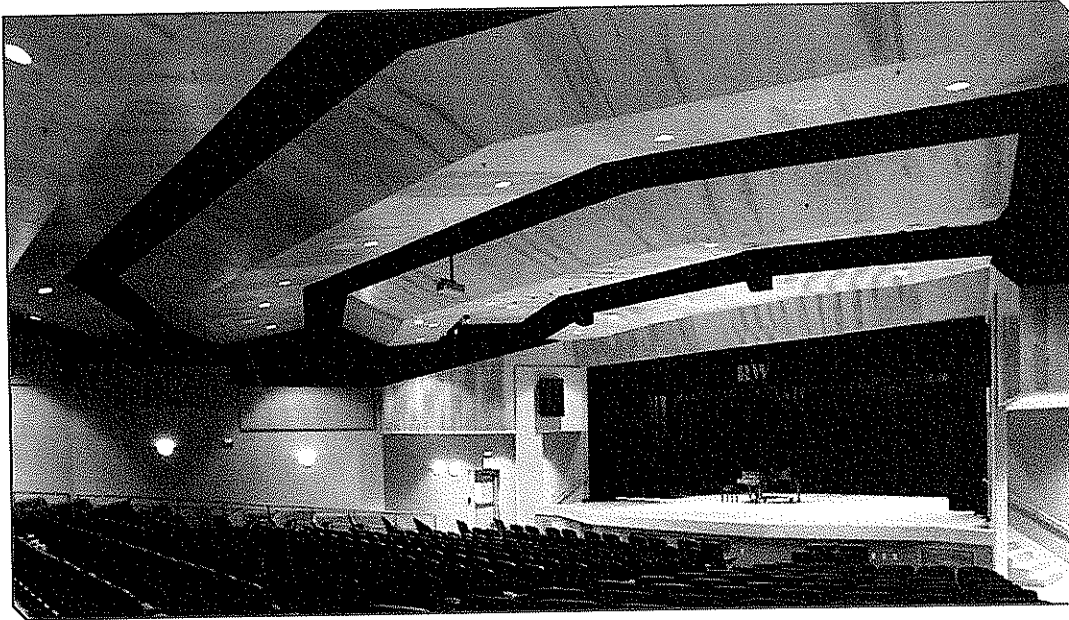
## Gymnasium Addition to Raceland Worthington High School Cultural Arts and Athletic Complex

Raceland, Kentucky

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.



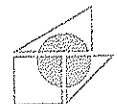
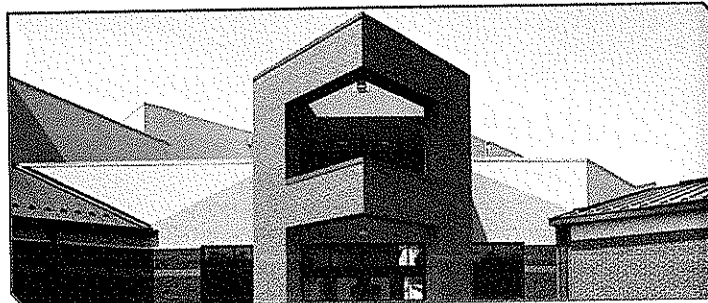
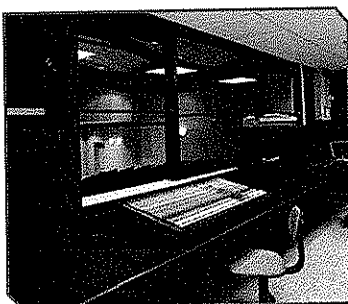
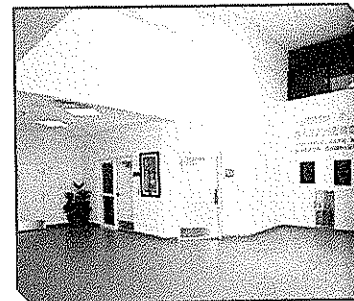
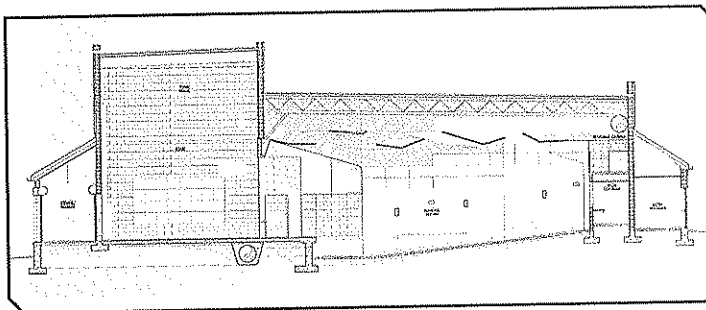
# relevant experience :: ACADEMIC



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

Raceland, Kentucky

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.



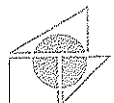
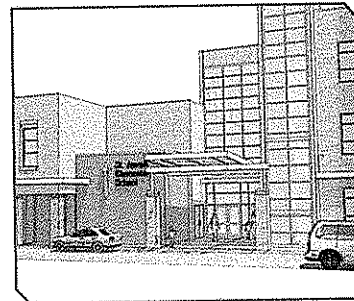
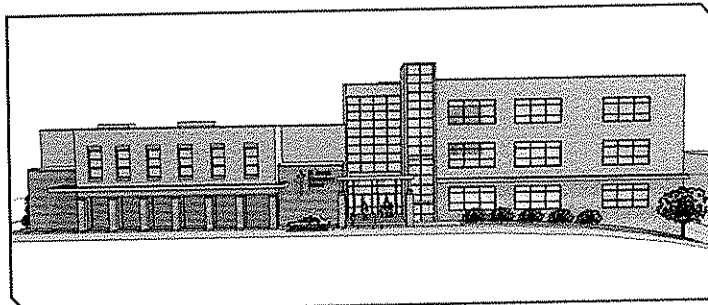
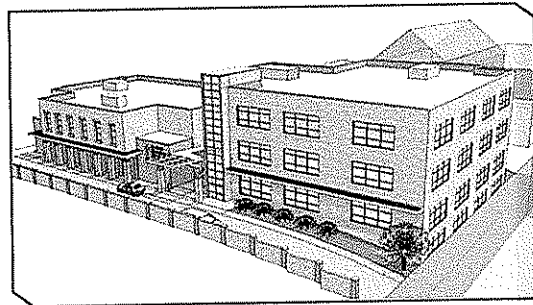
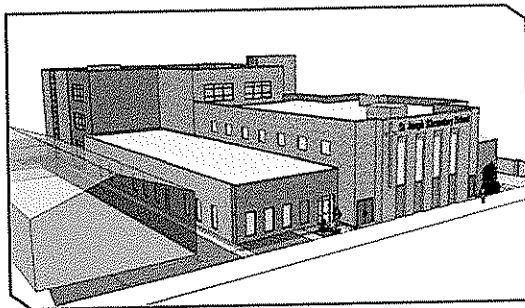
# relevant experience :: ACADEMIC



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

Huntington, West Virginia

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.

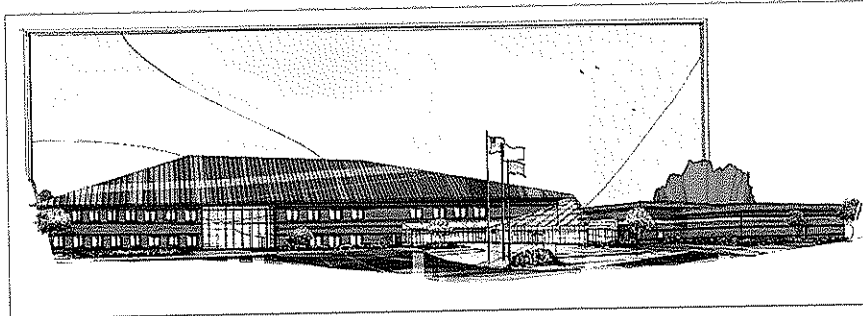


# SCHEESER BUCKLEY MAYFIELD LLC

## PROJECT EXPERIENCE

### **Armed Forces Recruiting Center Whitehall Project**

The Whitehall Armed Forces Reserve Center is a new building of approximately 150,272 square feet. The building program includes offices, training facilities, readiness rooms, unit storage facilities, an assembly hall and a kitchen. The project also



includes recruiting offices, medical examination rooms and a weapons simulator room. Approximately 900 people will work and train in this facility. Additionally the project consists of a 5,067 square foot Vehicle Maintenance Shop, and an additional 6,549 square foot Storage Building. Scheeser Buckley Mayfield was responsible for the MEPT and Civil design for the facility. The project delivery method was design build with the A/E team participating in the project solicitation response as well as the design documentation. The project was designed to comply with federal energy conservation measures roughly equivalent to a LEED Silver energy performance. The building envelope was modeled by Scheeser Buckley Mayfield to assist in accomplishing compliance with ASHRAE 90.1-2004

Service for the three building complex was obtained from a new service drop designed to connect to the Bases' 13.2 KV overhead distribution system. The new service drop feeds a 2500 KVA, 13.2KV to 480/277V, 3 phase, and liquid-filled, outdoor padmount transformer. This transformer supplies the Training Building's 3000A, 480/277V Main Switchboard. Separate metered feeds were run from the Main Switchboard for electric service to Vehicle Maintenance Shop and Storage Building. The Training Building's electrical distribution system was designed so that mechanical system equipment is on separate electrical feeds segregating it from the electrical system serving office areas. 208/120V power for the office areas are served by K13 rated step down transformers. The 208/120V distribution systems serving the office areas were designed with a 200% neutral throughout. Building lighting generally consisted of the 2'x 4' recessed fluorescent fixtures in areas with ceilings and 1'x 4' surface industrial fluorescent fixtures in utility areas with no ceilings. Offices and open office areas were generally lit with recessed direct/indirect lighting fixtures. Restrooms and general use spaces were lit with recessed fixtures having acrylic prismatic lenses. Lighting utilized T8 lamps, and electronic ballasts having less than 10% THD. The lighting in open office areas is controlled via a programmable lighting control system. Corridor lighting and lighting in offices having more than one occupant is controlled via ceiling mounted occupancy sensors. Lighting for individual offices is controlled via a wall mounted occupancy sensor. The design included the installation of power and telecommunication feeds for large amounts of modular office furniture. A combination analog addressable fire alarm and mass notification was designed for the Training Building and the Vehicle Maintenance Shop. A tie in with the Base's fire alarm and mass notification was also included. The design provided a building card access/security system which ties in and interfaces with the Bases' existing security system as well as a Cable TV distribution system. The project included the design of the telecommunication system for the three buildings. The designed covered the design of telecommunications rooms, a new telecommunications main distribution frame, wiring, and jacks.



**Kenova Readiness Center Addition & Renovation**  
**West Virginia Army National Guard**  
**Kenova, WV**

Scheeser Buckley Mayfield provided mechanical, electrical and fire protection design services for the renovation of 5,480 sq. ft and addition of 4,000 sq. ft. The addition area included storage space, mail room, locker room and restroom. The renovated areas included locker room and conference room. The HVAC design consisted of the installation of a DX rooftop unit to serve the addition. Zone control was provided through the use of VAV terminal units. The existing heating water system was extended to deliver heating water to the terminal unit reheat coils. Ductless split systems were added in the renovated areas. The new addition consisted of a new restroom with showers. The existing domestic water system was extended to serve the addition. Waste and vent piping was installed to serve the new fixtures. The piping was tied into the existing piping. New primary and secondary drains were installed for the addition. The existing building was fully sprinkled. This system was extended to serve the new addition and was modified to accommodate the renovation. The electrical design consisted of new emergency generator into existing electrical distribution system, sized to backup entire facility, lighting, power, telecom design, adding new fire alarm and devices and speaker in existing fire alarm and sound systems and added door security locks to building and security gate in parking lot. Common rooms in new addition had occupancy sensors installed for automatic lighting controls. A new code compliant electrical service was brought into feed existing fire pumps.

**Huttonsville Correctional Institution**  
**Dormitory Addition and Fire Alarm Upgrade**

Scheeser Buckley Mayfield LLC provided HVAC, plumbing, and electrical design for the renovation and expansion of two dormitory wings as well as expansion of fire alarm systems at Huttonsville Correctional Institution. Electrical design included lighting, power and systems for the new dormitory. This power design included the coordination of a new utility service as well as installation of backup power for the renovated dormitories. The backup power consisted of a new diesel generator near the dorms and automatic transfer switches/distribution to support the facility. Additional aspects to the design included rework of existing salleyport entrance to the facility,

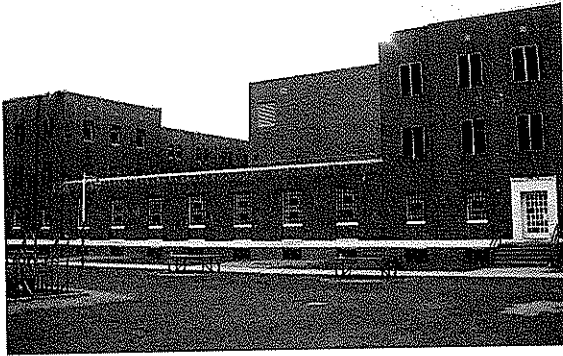


Security systems including door hardware set requirements were integrated into the design for the dormitory. Fire alarm systems for the renovated dormitories were connected to the facility wide fire alarm system via a fire alarm network. This facility wide campus network was upgraded in order to allow a fully integrated system which could be monitored at Master Control. A large number of fire alarm signaling devices (smoke detectors, heat detectors, pullstations, strobes, etc.) were added throughout the facility to ensure that the facility complied with current fire alarm code.

A new heating/cooling system was installed to replace the existing heating only system consisting of steam and condensate risers located throughout the resident areas. The new HVAC design includes multiple constant volume DX cooling rooftop air handling units to serve the new resident areas. The new air handling units do not contain heat, but are supplemented with hot water reheat coils located throughout the spaces. A steam to hot water heat exchanger with associated heating water pump and condensate pump located in the basement of each new resident wing provides the heating water for the reheat coils. The steam and condensate utilized in the new heating water system originate in the main mechanical room with services extended to the new resident wings. The design of the airside system includes security diffusers and grilles along with security bars located throughout the spaces at designated security walls. Due to limited spacing in the plumbing/HVAC chases for each

resident room, coordination of mechanical, electrical, plumbing and fire protection services was critical.

The Dormitory Addition plumbing demolition design consisted of reworking and the rerouting of existing utilities that conflicted with the addition and completely remove all plumbing fixtures and associated piping from the existing dormitories. The new plumbing work consisted of extending new piping from existing mains, the upgrade of the existing domestic hot water system, the installation of a master thermostatic mixing valve at each dorm, and the installation of new institutional type plumbing fixtures. The fire protection design consisted of a new packaged fire pump system installed outside of the facility's fence, the extension of new fire lines to upgrade the entire facility with standpipe systems in accordance with the West Virginia State Fire Code and NFPA, and to fully sprinkle the new dorm additions.



### ***Huttonsville Correctional Institution Boiler Replacement***

Scheeser Buckley Mayfield LLC provided electrical design associated with the installation of replacement boilers serving the facility. The electrical renovation included rework of an existing feeder and replacement of existing distribution in the boiler plant to support the new equipment. Lighting in the boiler plant was also replaced as part of the project.

### ***Huttonsville Correctional Institution Kitchen Renovation***

Scheeser Buckley Mayfield LLC provided plumbing and electrical design associated with the renovation of the existing kitchen. The renovation included the removal and replacement of approximately 60% of the floor under the kitchen area of the building. The electrical renovation included replacement of existing distribution and branch panels in the renovated space, demolition and refeeding of branch circuits serving existing and new kitchen equipment, and rework of existing branch circuiting which could be reused to refeed equipment. Prior to the work associated with the demolition and renovation, a temporary kitchen was installed at the site. This involved the installation of a temporary utility service, and temporary power distribution to multiple trailers housing serving lines, dishwashing lines, and food prep areas.

The Kitchen Renovation required a major shut-down due to the replacement of the kitchen floor slab. This required a temporary kitchen be set in place consisting of leased trailers which required temporary domestic water and sanitary service. The plumbing design within the kitchen consisted of completely removing all equipment and associated plumbing utilities. Once the floor slab was repaired, the kitchen equipment was reinstalled with new plumbing service. The new plumbing work consisted of providing the existing and new kitchen equipment with the required connections and to meet and update the requirements of the local health department. The design included reworking the existing steam system, install mixing valves to provide tempered water at hand washing sinks, and extending all kitchen equipment with grease laden waste through the existing grease filtering system.

**Marshall University  
Forensic Science Center Annex Addition  
Huntington, WV**

The project consists of a 15,000 sq. ft. lab annex building located at the existing Marshall University Forensic Science Center site. The building was designed as a standalone building with separate mechanical and electrical services.



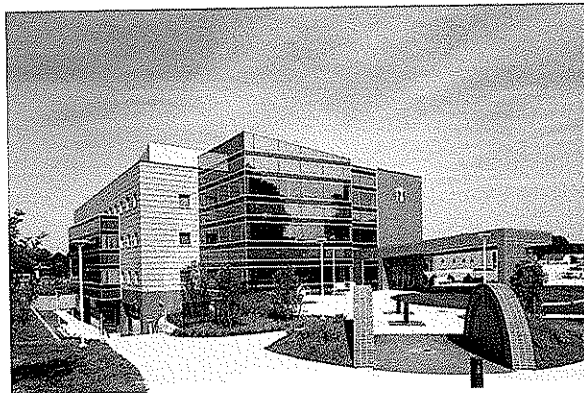
The HVAC system for the building consists of three packaged rooftop units, one serving each floor of the building. The units were installed on a concrete pad on the roof for sound attenuation. Variable air volume (VAV) terminals are located in the rooms for temperature control zoning and airflow control. The lab fume hoods are provided with Phoenix control boxes to allow for two position control of the fume hoods for energy savings. Each fume hood is connected to a dedicated exhaust fan located on the roof. A sound attenuator was located in each exhaust duct to reduce noise in the rooms. Special attention was given to the location of the exhaust outlets to ensure that no fume hood exhaust would recirculate back to the outside air intakes.

A new water and fire service was designed for the project. The water meter and backflow preventers are located inside the building. The building is fully sprinkled. The water service is separated into a domestic water and lab water system with each system having its own backflow preventer and water heater. A water softener is provided for the lab water. Waste systems are also separate with a sanitary piping system for restrooms and an acid waste system for the labs. An acid neutralization basin is located outside the building for treatment of the acid waste. Primary and secondary storm drainage systems were designed for roof drainage.

The electrical system consists of a new 1200 amp three phase service and a 150 kw generator for emergency service. Interior and exterior lighting is controlled through a digital lighting control system with programmable low voltage switches in each room and a dimming system in the main lecture halls. Each laboratory has a means of disconnecting the power by activating a push button at the laboratory entrance in case of an emergency. Equipment racks with patch panels for the present and future telcom requirements are provided with cabling and outlet throughout the building. Laboratory benches are provided with a three compartment wire way for normal and emergency electrical wiring and telcom cables. Outlets can be relocated in the wire way as required by the occupants.

**Marshall University School of Medicine  
Clinical Education & Outreach Center  
Huntington, WV**

Scheeser Buckley Mayfield LLC, Inc. performed mechanical and electrical design services for a new 80,000 sq. ft. medical office building. The building was designed with a custom penthouse unit. The unit contains the building's air handling units as well as a mechanical room to house water heaters, boilers, and pumps. Rooftop air-cooled chillers serve the penthouse unit. The building is fully sprinkled and is equipped with manual wet standpipes. A complete DDC control system was designed to control the HVAC equipment. Electrical systems included in the design include lighting, power distribution, and life safety systems. A standalone gas generator was also designed as part of the project.



**River City Properties  
Veterans Administration  
Huntington, WV**

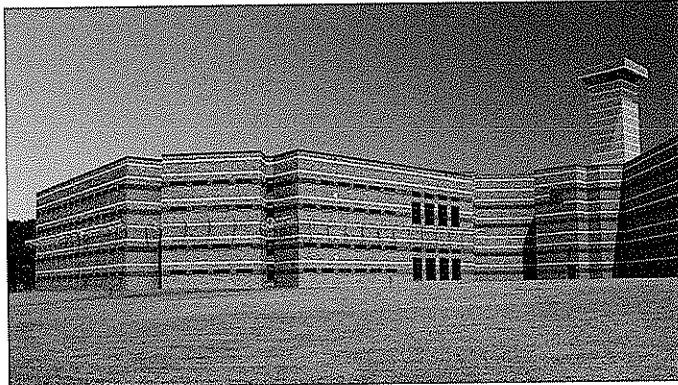
Scheeser Buckley Mayfield, LLC provided mechanical and electrical design services for the renovation of a 60,000 sq. ft. office building for the Veteran's Administration. The building is owned by River Cities Properties LLC and is leased to the VA. The construction was split into multiple phases to allow the tenant to occupy the space during the renovation.

The mechanical design consisted of the replacement of two existing rooftop air handling units and replacement of the entire ductwork system. This involved the installation of new VAV terminal units with electric reheat. The system was zoned to properly accommodate changes in the office layout. Plumbing systems were modified to serve new fixtures.

The electrical portion of the project involved the coordination and rework of the electrical service to the building, interior and exterior lighting, power, telecommunications systems, fire alarm systems, and replacement of the entire building security system for the facility. Building security redesign involved replacement of security system head-end equipment including camera systems, access control systems, and intrusion detection systems.

**West Virginia Department of Corrections  
Mt. Olive New Substation  
Charleston, WV**

The project consists of the design of a new 34.5kV to 12.47kV electric substation outside the facilities' boundary fence to replace the facilities' trouble prone 34.5KV distribution system. Drawings and Specifications are being prepared for the installation of a new electric substation, the replacement of the facilities' padmount transformers, and the underground high voltage cable loop feeding the transformers. The substation design is the low profile type and includes voltage regulation. Heating and ventilation systems for the switchgear house are provided.



The substation will have two transformers with a secondary tie at the 12.47 KV level. The substation secondary tie would permit feeding all substation loads in the event one of the transformers fails or is taken off line for maintenance. The design of the substation includes a 12.47 KV switchgear house to enclose the substation's 12.47kV switchgear. This is being done to improve reliability and ease of maintenance of the substation's switchgear. Project design will cover the extension of the existing 35 KV power company line to the new substation.

The project presents a design challenge in the area of substation grounding as the facility is on the top of a mountain in a reclaimed mine area having suspect soil conditions that can adversely affect a good grounding installation. The project presents challenges in interfacing with the facilities' standby power system as the system is old and interfaced with the distribution system in an unconventional manner. An additional design challenge is to maintain power to each of the facility buildings during the construction of the project. This will be taken care of by starting at one end of the facilities 34.5kV loop and reconnecting each padmount transformer on a one by one basis to the new 12.47kV distribution loop. A temporary generator will be connected to each building as its associated padmount transformer is replaced.

**West Virginia Department of Corrections  
Mt. Olive Command & Training Center  
Mt. Olive, WV**

Scheeser Buckley Mayfield LLC provided mechanical, electrical, plumbing and fire protection design services for this 4,000 sq. ft. training center. The project included an open area for group training as well as support spaces including offices, storage areas, command center and an armory area.

**West Virginia Wesleyan College  
Virginia Thomas Law Center for the Performing Arts  
Buchanan, WV**

The HVAC system includes six constant volume rooftop mounted units. The auditorium is served by two units with heat wheels, gas heat, and hot gas reheat coils. The stage is served by one constant volume unit with gas heat and a hot gas reheat coil. The shop and lobby each are served by a constant volume unit with gas heat. The classroom area is served by a constant volume unit with gas heat and an electric reheat coil for zoning. Split system units with low ambient controls are used for areas such as the control room and the dimmer rack room, where there are large concentrations of heat. All roof top units have been carefully located to be in the least sound sensitive area. Ductwork serving the auditorium and stage is sized with low velocity for noise control. Specially designed low noise criteria diffusers are used in auditorium. The air distribution system serving the stage and auditorium was closed coordinated with acoustic consultant.

Electrical Design for the Virginia Thomas Law Performing Arts College included extensive utility coordination and relocation of existing services. Many telecom, fiber, and overhead electrical service cables needed to be rerouted to areas outside of the construction zone. The electrical distribution included a new pad-mounted utility transformer which fed a 1600A, 480/277V, 3-phase, 4-wire switchboard. Interior power distribution was utilized at 480/277V and 208/120V. SBM worked with the project theatrical and audio/visual consultants on power and lighting requirements for their respective equipment. Outlying spaces from the auditorium included offices, dressing rooms, auxiliary spaces, and also a reception suite. The lighting design for the public spaces was designed to flow from space to space. Pendant fixtures utilized were available in a wide variety of scales to accommodate the two-story and single-story spaces with a common lighting theme. Accent lighting was used on the exterior to highlight features on the façade and to reveal the texture of the building at night.

**West Virginia Air Center  
Bridgeport, West Virginia**

Mechanical and electrical engineering services for 150,000 sq. ft. maintenance hanger facility for commuter size aircraft. This consisted of 78,500 sq. ft. for aircraft maintenance and painting facility along with 45,000 sq. ft. commercial office space and 30,000 sq. ft. maintenance shop area. Electrical systems consist of exterior and interior lighting, new telephone and power service and distribution, telephone and data system rough-in, and a new addressable multiplex fire alarm system. Power distribution consists of a 2,000 amp, 480/277 volt, 3-phase, 4-wire service to a main distribution panel which feeds sub-distribution panels located throughout the facility. 480 to 208 volt step-down transformers are located throughout the building for power distribution to receptacles and 208/120 volt mechanical equipment. Main mechanical equipment is fed from a motor control center located in the mechanical room. Interior lighting for the facility consisted of hazardous location industrial fixtures in the painting areas, HID high-bay fixtures in the hanger area, fluorescent lay-in fixtures in office spaces, industrial fluorescent fixtures located in utility spaces, and various other types of fixtures as required. Programmable low voltage lighting controls were provided for the hanger lighting, and fluorescent fixtures located in office spaces are multi-level switched in order to provide energy cost savings.

**Ohio Department of Transportation District 4 Maintenance Garage and Testing Lab  
Akron, Ohio**

Scheeser Buckley Mayfield completed mechanical, plumbing, and fire protection design for this 25,000 sq. ft. maintenance building. The building consist of 3 portable lift bays, 3 permanent lift bays, and 4 maintenance bays. It also included a bulk fluid storage area, truck work area with overhead crane, testing laboratory, and mechanics room. The plumbing design included hydraulic fluid, compressor air, #1 and #2 fuel oil systems with overhead dispensing racks and oil interceptor with storage compartments. The mechanical systems included gas fired radiant heating, air cooled condensing units and gas monitoring.

**Ohio Bell Telephone Boettler Oaks Coin Garage  
Uniontown, Ohio**

Mechanical and electrical engineering services were provided for this approximately 12,000 sq. ft. facility. This facility consisted primarily of a large garage area, office areas, shop areas and mechanical/electrical spaces. Electrical systems consisted of new energy efficient lighting, power and telephone service, fire alarm system, and wiring of vault security system. Power distribution for the facility consisted of a new pad-mounted transformer located outside the building feeding a new 400 amp, 208/120 volt, 3-phase, 4-wire service. This service in turn feeds lighting and receptacle panelboards located throughout the facility as well as a power center for mechanical equipment. Lighting consisted of energy efficient fluorescent lighting, metal halide low bay lighting in the garage, and metal halide pole-mounted lighting for the site. Garage lighting is controlled by independent switches at the entrances through a remote contactor, and by motion sensors located throughout the garage. The motion sensors connect to a high-low lighting controller which automatically controls the light level in the garage based on occupancy providing additional energy cost savings. Exterior site lighting is controlled by multiple time clocks and photocell. Automatic controls were provided for paint hood exhaust fan. Systems consisted of wiring of a vault security system, a door entry security system, and a new fire alarm system. Conduit and box rough-in was provided for telephone/data outlets, and an aluminum cable tray was provided in the corridor for communications cabling between telephone/data closets. Building mechanical consisted of office and garage HVAC and specialized ventilation systems including paint spray area with remote operational and monitoring direct digital control capabilities. Design also included garage and office area plumbing systems and a wet pipe sprinkler system, pump and tank arrangement.

# project

## Kenova Armed Forces Reserve Center Site Improvements and Renovation

Wayne County, West Virginia



### Client

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

### Contact

Nathan Randolph, AIA  
304.697.4990

### Nature of Work

Working closely with the Project Architect and other team members we provided structural and civil engineering services for a renovation, expansion and site upgrade project for the West Virginia National Guard Armed Forces Reserve Center located in Kenova, West Virginia.

This project involved the design of the structural framing and foundation system for an approximately 5000 SF addition to the existing Armed Forces Reserve Center building as well as various site enhancements including a gated entrance, increased equipment parking capabilities and improvements to alleviate storm water drainage issues.

Additional responsibilities included surveying, mapping, shop drawing review and construction consultation.

### Key Personnel

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

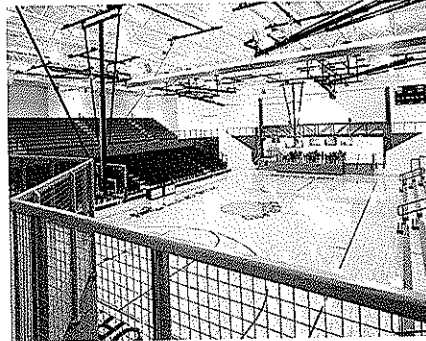
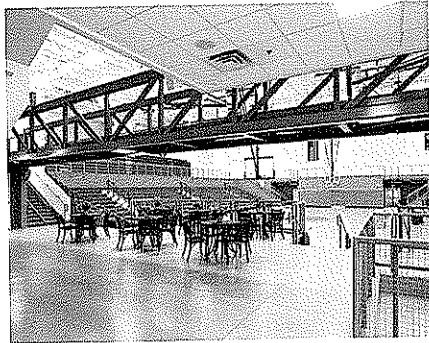


4414 Teays Valley Rd.  
Scott Depot, WV 25560  
p. 304.757.9217 f. 304.757.1029

# 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

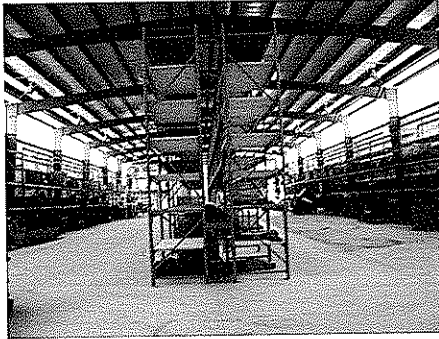
Project Manager – Aaron C. Randolph, P.E.  
Design Engineer – Jacob C. White, P.E.



# project

## Clark International Logistics, LLC

Putnam County, West Virginia



### Client

Clark International Logistics, LLC  
P.O Box 1089  
Poca, West Virginia 25159

### Contact

Mr. Eric Clark  
304.755.8811

### Nature of Work

This project involved the study, design and preparation of contract plans and related documents for the development and site expansion/renovation of the Clark International Logistics, LLC facility in Putnam County.

Design services included preliminary and final site grading and design, storm water management, asphalt and concrete pavement design, utility relocation and extension design within the site as well as security fencing, access control, landscaping, lighting, permitting and signing design. As part of this expansion we provided foundation and structural floor slab design for a 24,000 SF pre-fabricated steel building that will be used for parts and equipment storage.

Additional responsibilities included topographic mapping for design services and construction stakeout as well as coordination with the general contractor and various sub-consultants.

### Key Personnel

Project Manager – Jacob C. White, P.E.  
Designers – Stacey Call, S.I. & Larry Stricker

# project

## Heritage Equipment Company Facility

Louisa, Kentucky



### Client

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

### Contact

Gary Young, President  
304.757.9196

### Nature of Work

Project consisted of design, analysis, preparation of contract documents and construction administration for a 22,600 S.F. office, service shop and parts warehouse for Heritage Equipment Company including site design and permitting. The project was undertaken on the Design-Build method of delivery.

Building design responsibilities included foundation design, interior and exterior wall design and reinforced concrete slab floor design for a pre-fabricated steel building.

Site design responsibilities included site surveying, mapping development, parking layout, building orientation and all utilities as well as pavement design and preparation of permit packages for appropriate regulatory agencies..

### Key Personnel

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

### Estimated Construction Cost

\$2,486,000.00

# project

## FedEx Distribution Facility

Raleigh County, West Virginia



### Client

Corder Builders, Inc.  
P.O. Box 244  
Barboursville, West Virginia, 25504

### Contact

Mr. Bob Corder  
304.733.4020

### Nature of Work

This project involved the foundation and site design for a new office, warehouse and distribution center located in Raleigh County, West Virginia.

Developed on a fast track schedule this project consisted of site design and permitting for an approximately eight (8) acre site that included storm water management and detention, preliminary and final site grading, utility corridors, parking layout and lighting design. The building design scope of work included foundation and floor slab design for a 38,000 SF prefabricated steel building.

Additional responsibilities included field surveying, mapping and construction stake-out.

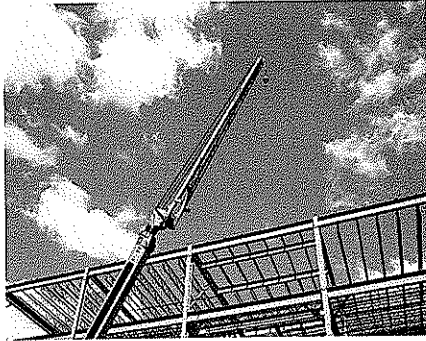
### Key Personnel

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

# project

## Hobet Mining Office and Maintenance Complex

Logan County, West Virginia



### Client

Hobet Mining, Inc.  
P.O. Box 305  
Madison, West Virginia, 25130

### Contact

Mr. Bob Euler  
304.369.6780

### Nature of Work

This project involved the design and construction of a 31,660 square foot office and maintenance building for Hobet Mining on an accelerated schedule. The project was undertaken on the Design-Build method of delivery.

The interior of the structure was zoned into three primary areas. The maintenance shop area utilizes 16,300 square feet with two 40 ton bridge cranes required to service massive earthmoving equipment, the warehouse area utilizes 10,800 square feet, and the office area utilizes 4,560 square feet.

The building structure consists of a 31,660 square foot manufactured metal building structure is founded on raft foundations. Design responsibilities included foundation and slab design, maintenance facility and office layout, mechanical, and electrical.

The schedule mandated by the client allowed 9 months for design and project construction with foundation construction beginning in the month of November.

### Key Personnel

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

# project

## Parkline Office and Manufacturing Complex

Putnam County, West Virginia



### Client

Parkline Incorporated  
P.O. Box 65  
Winfield, West Virginia, 25213

### Contact

Mr. Tom Harding, P.E.  
304.586.2113

### Nature of Work

This project involved the design of a 68,300 square foot office building and industrial/manufacturing complex for a leading manufactured steel building fabricator. The design involved the preparation of plans and specifications for the business park layout as well as permitting and site design.

The structure consists of a single story manufactured steel building designed into two zones. The warehouse and manufacturing area utilizes 59,800 square feet and the office area utilizes 8,500 square feet. The foundation design consisted of building perimeter foundations, column footings as well as crane and press foundations.

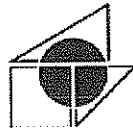
The site involved preliminary and final site grading, storm water drainage design, parking lot layout, utility design and preparing permit packages for the appropriate regulatory agencies..

### Key Personnel

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

**References**  
**WV ARMY NATIONAL GUARD – PARKERSBURG READINESS CENTER &  
FIELD MAINTENANCE SHOP**

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**Edward Tucker  
ARCHITECTS, INC.**

916 Fifth Avenue - Suite 208  
Huntington, West Virginia 25701  
304.697.4990  
www.etarch.com

Project References for which Edward Tucker Architects provided similar services:

**West Virginia Army National Guard**  
Charleston, WV

LTC William Suver  
Construction & Facilities Management Office  
(304) 561-6454

**Cabell County EMS**  
Huntington, WV

Gordon Merry  
Director  
(304) 526-9797

**Joan C. Edwards School of Medicine at  
Marshall University**  
Huntington, WV

Jim Schneider  
Senior Associate Dean for Finance & Administration  
(304) 691-1720

**Forensic Science Center  
Marshall University**  
Huntington, WV

Dr. Terry Fenger  
Director  
(304) 690-4373

**Cabell Huntington Hospital**  
Huntington WV

Brent A. Marsteller  
President and CEO  
(304) 526-2052

Jim Taylor  
Construction Manager  
(304) 526-2038

**Marshall University**  
Huntington, WV

Ron May and Mike Meadows (retired)  
Director of Facility Planning & Management  
(304) 696-6415

Project References for which Scheeser, Buckley, Mayfield, LLC provided similar services include:

**Armed Forces Recruiting Cntr. - Whitehall Project**  
Louisville, KY

Mr. David Mann  
Mann Architects  
(330) 666-5770

**Huttonsville Correctional Institution**  
Huttonsville, WV

Mr. Bill Weimer  
Huttonsville Correctional Institute  
(304) 335-2291

Project References for which Randolph Engineering provided similar services include:

**G&G Builders, Inc.**  
Scott Depot, WV

Mr. Gary Young  
President  
(304) 757-9196

Mr. Mike Davis  
Vice President/General Mgr.  
(304) 757-9196

**Floyd County Health Department**  
Floyd County, KY

Ms. Thursa Sloan  
(304) 552-1782

COMMUNITY

SOLID

QUALITY DESIGN

LISTEN

SERVICE

COMMUNAL RESPONSIBILITY

REFLECTION

ARCHITECTURE

CAPABILITY

CONSIDER

QUALITY PROJECTS

TRUST ON A TRADITIONAL

BEAUTY

ARCHITECTURE

CREATIVITY

BALANCE

MUTUAL TRUST

SHARED IDEAS

DEDICATION

LASTING VALUE

SYNTHESIS

COMMUNITY

SOLID

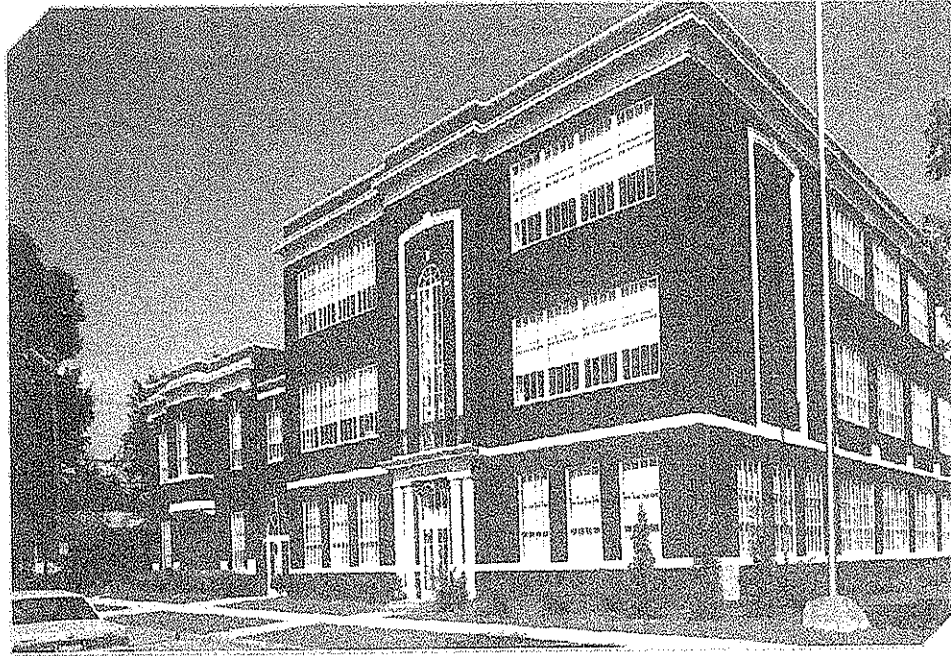
QUALITY DESIGN

LISTEN

SERVICE

COMMUNAL RESPONSIBILITY

COMMUNITY



I appreciate the accessibility of Edward Tucker Architects, regardless of the looming challenges or the project size. Huntington is indeed fortunate to have a firm with their expertise and intergrity.

— **Dorothy Turner-Lacy**  
*Community Development Specialist*  
*City of Huntington, West Virginia*

COMMUNITY

SOLID

QUALITY DESIGN

LISTEN

SERVICE

SIONAL RESPONSIBILITY

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COMMUNITY

SOLID

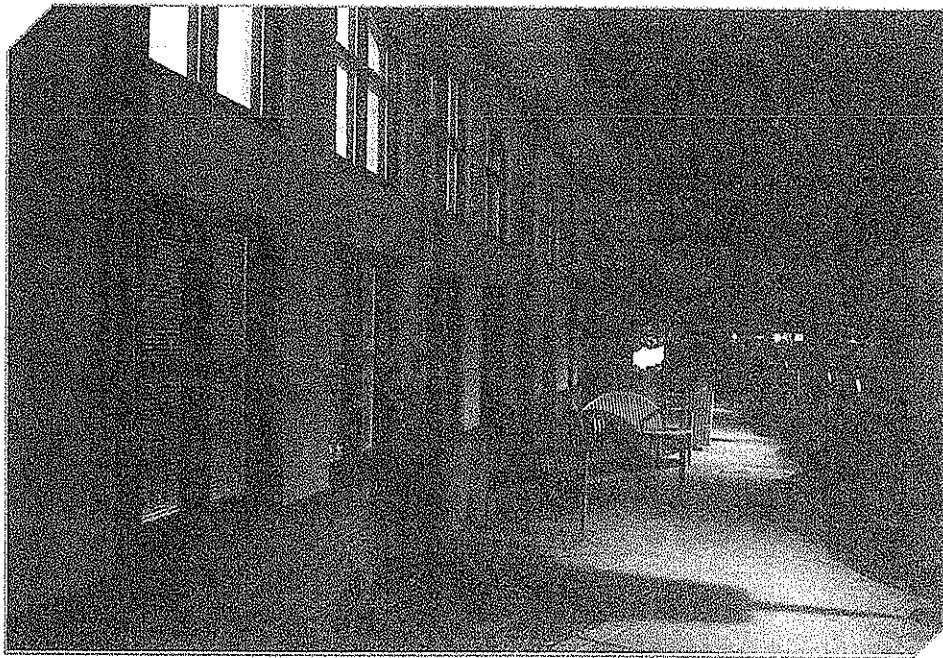
QUALITY DESIGN

LISTEN

SERVICE

SIONAL RESPONSIBILITY

REFLECTION



Edward Tucker Architects has consistently delivered quality architectural services, providing us with designs that are practical and pleasing to the eye.

— **Brent Marsteller**  
*President and CEO*  
*Cabell Huntington Hospital*



COMMUNITY

SOLID

QUALITY DESIGN

LISTEN

SERVICE

PERSONAL RESPONSIBILITY

REFLECTION

ARCHITECTS

CAPABILITY

ADVISER

QUALITY PRODUCTS

BUILT ON A TRADITION

BEAUTY

ARCHITECTURE

CREATIVITY

BALANCE

MUTUAL TRUST

SHARED IDEAS

DEDICATION

LASTING VALUE

SYNTHESIS

COMMUNITY

SOLID

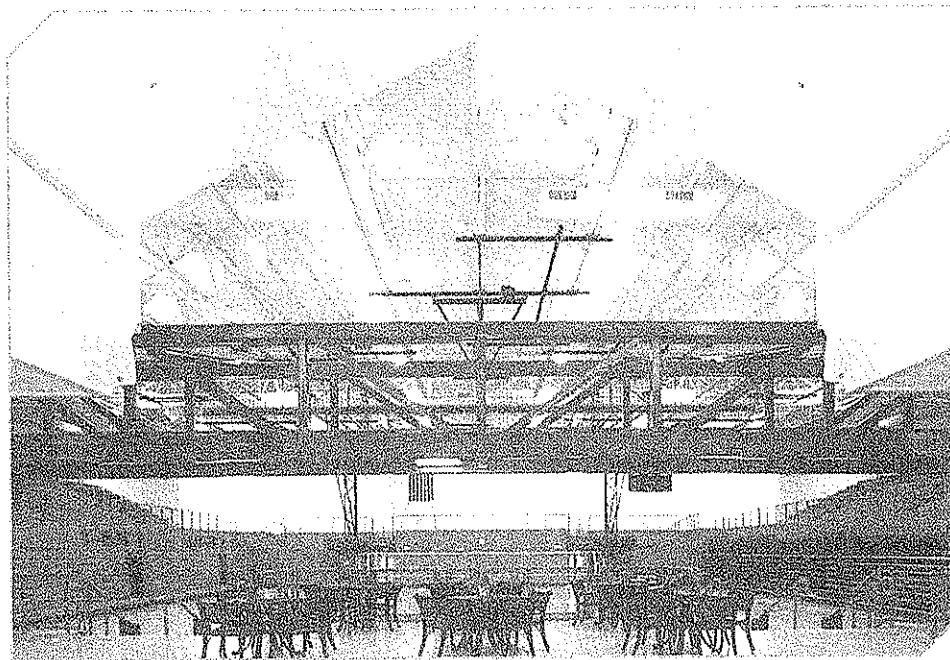
QUALITY DESIGN

LISTEN

SERVICE

PERSONAL RESPONSIBILITY

PERSONAL RESPONSIBILITY



Working with your firm has been a blessing. As Vice Chairman and Raceland Worthington School District's Project Manager, your design effort, creativity, and guidance has produced a world class Cultural Arts and Athletic Complex. Your firm assisted our school district in excellent value engineering to obtain a great facility for a very reasonable cost. Great Job! I was very proud to be in Chicago at the 2006 NSBA show and see our school district's building project along with others all across the USA.

— Don Nicholls  
 Vice Chairman & Project Manager  
 Raceland Worthington School District