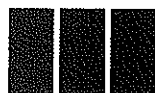
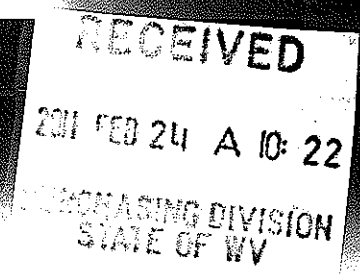


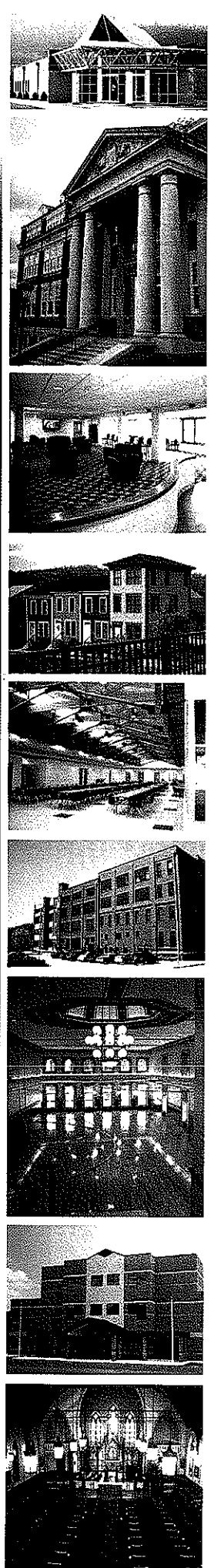
WEST VIRGINIA ARMY NATIONAL GUARD

DEFK11026

Professional Architectural Engineering
Design Services for a Maintenance
Complex for the Coonskin Park Area at
the Charleston Armory Complex



McKINLEY & ASSOCIATES
ARCHITECTS • ENGINEERS • INTERIOR DESIGN





February 22, 2011

Ms. Tara Lyle
Purchasing Division
2019 Washington Street, East
P.O. Box 50130
Charleston, WV 25305-0130

Dear Ms. Lyle and Member of the Selection Committee,

McKinley & Associates is honored to submit our expression of interest for professional architectural engineering design services for a Maintenance Complex for the Coonskin Park Area at the Charleston Armory Complex. Your project will be led by **Thomas R. Worlledge, AIA, LEED AP BD+C, REFP**, our **Charleston Area Manager**, whom is an **architect** and a **LEED Accredited Professional**. We are also proposing to dedicate additional professional design staff from our **Charleston Office** which includes, Nicole D. Riley as an Architect Intern, Deb Blakeman, NCIDQ #015070 for Interior Design, and Dana E. Womack, Jr. for Construction Administration. This office is **located less than 5 minutes** from your Construction & Facilities Management Office (Coonskin Complex).

McKinley & Associates has been providing design services since 1981. With offices in Charleston and Wheeling, WV, and Washington, PA, we support a professional staff of 40+ that includes: architects, mechanical, electrical, plumbing/life safety engineers (MEP engineers) as well as a certified interior design department. We are proud to be generally considered one of the largest full service A/E firm in the State of West Virginia.

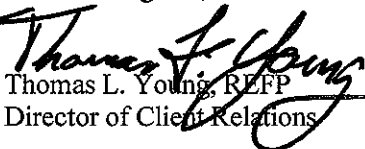
Our firm has considerable experience in facilities designed for State and Federal agencies, including National Guard facilities in West Virginia. We have most recently been involved with engineering the Multipurpose Building and the Challenge Learning Center in Kingwood, WV.

One of the more exciting aspects of our job is listening to YOU, our client, in how you envision this project, and transforming your ideas into realities. This can only be accomplished by effectively working together with you. Most of our current clients have been with our firm for many years. The main reason we have been able to maintain this relationship is because we LISTEN to their needs. We encourage you to speak with our references because we feel this is the best way that our abilities can be conveyed to you.

Triad Engineering, Inc. is a full service engineering corporation specializing in the areas of civil and geotechnical engineering and design, subsurface exploration, environmental assessment and remediation, construction monitoring and inspection, laboratory testing, surveying, drilling and landscape architecture, among other earth science disciplines. They will be our civil/site consultant, and with their close proximity in St. Albans, they are a welcome addition to our team.

We believe that McKinley & Associates brings many benefits, which we outlined in the enclosed document. Thank you for reviewing our submission and considering us for your project. We are very excited about the possibility of working again with the West Virginia Army National Guard, Construction and Facilities Management Office. If you have any questions, please do not hesitate to call at any time.

Personal Regards,


Thomas L. Young, REFP
Director of Client Relations



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

Request for Quotation

RFQ NUMBER
DEFK11026

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF
**TARA LYLE
 304-558-2544**

RFQ COPY
TYPE NAME/ADDRESS HERE

*709060537
 McKinley & Associates
 The Maxwell Center / Suite 100
 32 Twentieth Street
 Wheeling, WV 26003

**DIV ENGINEERING & FACILITIES
 ARMORY BOARD SECTION**

**1707 COONSKIN DRIVE
 CHARLESTON, WV
 25311-1099 304-341-6368**

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
01/12/2011				

BID OPENING DATE: **02/24/2011** BID OPENING TIME: **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	JB		906-00-00-001		
<p>ARCHITECT/ENGINEERING SERVICES, PROFESSIONAL</p> <p>EXPRESSION OF INTEREST (EOI)</p> <p>THE WEST VIRGINIA PURCHASING DIVISION FOR THE AGENCY, DIVISION OF ENGINEERING & FACILITIES, WV ARMY NATIONAL GUARD, IS SOLICITING EXPRESSIONS OF INTEREST FOR PROFESSIONAL ARCHITECTURAL ENGINEERING DESIGN SERVICES FOR A MAINTENANCE COMPLEX FOR THE COONSKIN PARK AREA AT THE CHARLESTON ARMORY COMPLEX, PER THE FOLLOWING BID REQUIREMENTS AND ATTACHED SPECIFICATIONS.</p> <p>TECHNICAL QUESTIONS CONCERNING THIS SOLICITATION MUST BE SUBMITTED IN WRITING TO TARA LYLE VIA MAIL AT THE ADDRESS SHOWN IN THE BODY OF THIS EOI, VIA FAX AT 304-558-4115, OR VIA EMAIL AT TARA.L.LYLE@WV.GOV.</p> <p>DEADLINE FOR ALL TECHNICAL QUESTIONS IS 02/07/2011 AT THE CLOSE OF BUSINESS. ANY TECHNICAL QUESTIONS RECEIVED WILL BE ANSWERED BY FORMAL ADDENDUM ISSUED BY THE PURCHASING DIVISION AFTER THE DEADLINE HAS LAPSED.</p> <p>CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE COMMODITIES AND/OR SERVICE</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Thomas F. Hays</i>	TELEPHONE (304) 340-4267	DATE 2/22/11
TITLE Dir. of Client Relations	FAX 304-558-0696478	ADDRESS CHANGES TO BE NOTED ABOVE

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

GENERAL TERMS & CONDITIONS
REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods this Purchase Order/Contract becomes void and of no effect after June 30.
5. Payment may only be made after the delivery and acceptance of goods or services.
6. Interest may be paid for late payment in accordance with the *West Virginia Code*.
7. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
10. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern the purchasing process.
11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
12. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
13. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at www.state.wv.us/admin/purchase/vrc/hipaa.htm and is hereby made part of the agreement. Provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
14. **CONFIDENTIALITY:** The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.
15. **LICENSING:** Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, and the West Virginia Insurance Commission. The vendor must provide all necessary releases to obtain information to enable the director or spending unit to verify that the vendor is licensed and in good standing with the above entities.
16. **ANTITRUST:** In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

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

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
2. Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
4. All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130
5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).



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

Request for Quotation

RFQ NUMBER
DEFK11026

PAGE
2

ADDRESS CORRESPONDENCE TO ATTENTION OF
**TARA LYLE
 304-558-2544**

VENDOR FOR

**RFQ COPY
 TYPE NAME/ADDRESS HERE**

*709060537
 McKinley & Associates
 The Maxwell Center / Suite 100
 32 Twentieth Street
 Wheeling, WV 26003

SHIP TO

**DIV ENGINEERING & FACILITIES
 ARMORY BOARD SECTION

 1707 COONSKIN DRIVE
 CHARLESTON, WV
 25311-1099 304-341-6368**

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
01/12/2011				

BID OPENING DATE: **02/24/2011** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM TO THE SPECIFICATIONS OF THE BID AND CONTRACT HEREIN.</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THE STATE MAY DEEM THE CONTRACT NULL AND VOID, AND TERMINATE SUCH CONTRACT WITHOUT FURTHER ORDER.</p> <p style="text-align: center;">NOTICE</p> <p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p style="text-align: center;">DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130</p> <p>THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:</p> <p>SEALED BID</p> <p>BUYER:-----TL/32-----</p> <p>RFQ. NO.:-----DEFK11026-----</p> <p>BID OPENING DATE:-----02/24/2011-----</p> <p>BID OPENING TIME:-----1:30 PM-----</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Thomas F. Young</i>	TELEPHONE (304) 340-4267	DATE 2/22/11
TITLE Dir. of Client Relations	FEIN 55-0696478	ADDRESS CHANGES TO BE NOTED ABOVE

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



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

Request for Quotation

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*709060537
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DATE PRINTED 01/12/2011	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
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BID OPENING DATE: **02/24/2011** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	QAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID: ----- (304) 340-4269 -----</p> <p>CONTACT PERSON (PLEASE PRINT CLEARLY): ----- Thomas L. Young, REFP -----</p> <p>***** THIS IS THE END OF RFQ DEFK11026 ***** TOTAL: _____</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Thomas L. Young</i>	TELEPHONE (304) 340-4267	DATE 2/22/11
TITLE Dir. of Client Relations	FEIN 85-0696478	ADDRESS CHANGES TO BE NOTED ABOVE

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State of West Virginia
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25311-1099 304-341-6368

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
02/14/2011				

BID OPENING DATE: **02/24/2011** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
ADDENDUM NO. 1 1. QUESTIONS AND ANSWERS ARE ATTACHED. 2. ADDENDUM ACKNOWLEDGEMENT IS ATTACHED. THIS DOCUMENT SHOULD BE SIGNED AND RETURNED WITH YOUR BID. FAILURE TO SIGN AND RETURN MAY RESULT IN DISQUALIFICATION OF YOUR BID. EXHIBIT 10 REQUISITION NO.: DEFK11026 ADDENDUM ACKNOWLEDGEMENT I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC. ADDENDUM NO.'S: NO. 1 ✓ NO. 2 NO. 3 NO. 4 NO. 5 I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS.						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Thomas F. Young</i>	TELEPHONE (304) 340-4267	DATE 2/22/11
TITLE Dir. of Client Relations	FEIN 55-0696478	ADDRESS CHANGES TO BE NOTED ABOVE

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State of West Virginia
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BID OPENING DATE: **02/24/2011** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE INFORMATION ISSUED IN WRITING AND ADDED TO THE SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.</p> <p style="text-align: center;"> <i>Thomas A. Young</i> SIGNATURE McKinley & Associates COMPANY February 22, 2011 DATE </p> <p>NOTE: THIS ADDENDUM ACKNOWLEDGEMENT SHOULD BE SUBMITTED WITH THE BID.</p> <p>REV. 09/21/2009</p> <p style="text-align: center;">END OF ADDENDUM NO. 1</p>						
0001	1	JB		906-00-00-001		
ARCHITECT/ENGINEERING SERVICES, PROFESSIONAL						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Thomas A. Young</i>	TELEPHONE (304) 340-4267	DATE 2/22/11
TITLE Dir. of Client Relations	FERN 55-0696478	ADDRESS CHANGES TO BE NOTED ABOVE

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

DEFK11026 – ADDENDUM #1

Question # 1: May we visit the project site and if so, who may we contact with WVANG to schedule the visit that would not violate Section 1.4?

Answer: There will be no site visits for this project.

Question # 2: Will the design of the maintenance complex include items such as lifts, grease wheels, HVAC, and other appurtenances? Or, is the RFQ just seeking the metal building “shell”?

Answer: The maintenance complex could include items such as lifts, grease wheels and other appurtenances, budget permitting. The complex will include office areas and service areas, and these areas will have a heating system and the office area will have a cooling system. Utility design will also be required. The RFQ is not just seeking the metal building “shell.”

Question # 3: Is any more information available such as size of the proposed facility? Are vehicle maintenance and storage part of the facility? Is it just one building or more than one?

Answer: Ultimately, the facility size and configuration will be determined by the design and budget. Vehicle maintenance and storage will be part of the facility. The number of buildings and layout will be determined as part of the design.

CLARIFICATION: *This Expression of Interest (EOI) is to select a firm based on experience and qualifications for similar projects. No details relating to the actual design of this particular project are relevant to the firm's response at this time.*

RFQ No. DEFK11096

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

West Virginia Code §5A-3-10a states: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

DEFINITIONS:

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

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

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

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

WITNESS THE FOLLOWING SIGNATURE

Vendor's Name: McKinley & Associates

Authorized Signature: *Justin Deliber* Date: February 15, 2011

State of West Virginia

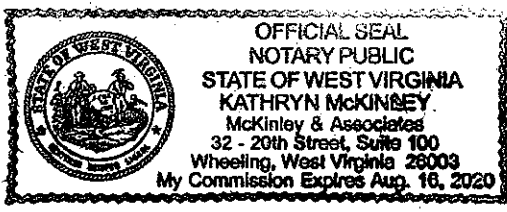
County of Ohio, to-wit:

Taken, subscribed, and sworn to before me this 15 day of February, 2011.

My Commission expires August 16, 2020.

AFFIX SEAL HERE

NOTARY PUBLIC *Kathryn McKinley*



Corporate Information

Firm History

Founded In 1981, McKinley & Associates is a multi-discipline **full service Architectural & Engineering firm**, offering comprehensive **professional services in architecture, engineering, interior design and construction administration**. We have a broad range of skill and experience for projects involving medical, educational, governmental, commercial, religious and recreational operations. In January 2007, McKinley & Associates established a partial **Employee Stock Ownership Plan (ESOP)**, which is a benefit plan that gives our employees ownership of stock in our company. This is a **contribution to the employee**, not an employee purchase.

Charleston Area Alliance Building



McKinley & Associates' Charleston Office

Washington Trust Building



McKinley & Associates' Washington (PA) Office

Firm Information

Tim Mizer, PE, RA
Director of Operations

Gregg Dorfner, AIA, REFP
Director of Architecture

Brad Crow, PE, LEED AP
Director of Engineering

Date of Incorporation
1981 Wheeling, West Virginia

Number of Professionals

Total Size	40+
Architects & Interns	12
Engineers	6
Construction Admins	4
Quality Control	2
Arch./Eng. Designers	11
Interior Designer	1
MIS	1
REFPs	3
LEED APs	4

Locations

Headquarters

The Maxwell Centre
Thirty-Two - Twentieth Street
Suite 100
Wheeling, West Virginia 26003
P: 304-233-0140
F: 304-233-4613

Satellite Offices

Charleston Area Alliance Building
1116 Smith Street
Suite 406
Charleston, West Virginia 25301
P: 304-340-4267
F: 304-340-4269

Washington Trust Building
6 S. Main Street
Suite 1028
Washington, Pennsylvania 15301
P: 724-223-8250
F: 724-223-8252

The Maxwell Centre



McKinley & Associates' Wheeling Headquarters

Credentials

McKinley & Associates is a member of the following **organizations**:
CEFPI, AWI, WVEDC, AIA, NFPA, NCARB, ASCE, ASPE, BOCA,
ASHRAE, ACI International

Management & Staffing Capabilities

In the past 30 years we have extensive experience with similar projects. The technical depth of our professional staff indicates that this project can be accomplished without overloading our group or computer graphics systems. Our project team has been chosen for this project and they are available to dedicate the necessary time to this effort. We are available to start immediately upon our being selected. We can and will perform for you on time.

The most important element of the entire process becomes communication from you to our designers. We use and welcome your input throughout the project. We continually achieve success in projects by maintaining time and cost management, quality control and excellent communication amongst the client and contractors. You will have the ability to review the plans and specifications at different completion percentages of the development phase.

This team is an "In-House" team that works together everyday and has done most of the projects here as a group. These team members have been working up to fifteen years together at McKinley & Associates.

We hold weekly meetings to discuss your project, the budget, schedule and quality assurance. We provide Documented Minutes of all of our meetings and encourage the Owner to participate in these meetings.

Our Quality Assurance Program starts with a peer review where a registered professional not involved in the design becomes reviewer of the project before going to bid. Additionally, at our regularly scheduled project meetings the entire design team is constantly reviewing the process.

Our Eleven Month Walk-Through is a process where our professionals return to your facility eleven months after the project is completed. At that time they review all the work that was completed and check all warranties. We are making sure all of the covered work is in order and that the warranties do not expire with equipment or product not working properly. It should be noted that McKinley & Associates has been performing our eleven month walk-through for the past 13 years as part of our Standard of Care, and it only recently has been adopted as an AIA 101 Standard. We also conduct Post Occupancy Evaluations with the Owner to find out how well we matched the Owners' needs.

McKinley & Associates is very excited about the possibilities of this project. One of the more exciting aspects of our job is listening to YOU, our client, in how you envision your project, and transforming your ideas into realities. This can only be accomplished effectively working together with you. Most of our current clients have been with our firm for many years. The main reason we have been able to maintain this relationship is because we LISTEN to their needs.

Our Philosophy is to provide our clients with experienced leadership as well as state-of-the-art and innovative design expertise to accomplish the goals of their project. Function, economics and versatility, in addition to the development of strong aesthetic appeal, are crucial elements in our design process. We also believe that enhancement of the physical environment in which each individual lives and works should add significantly to the enjoyment of life. Our firm has dedicated our professional skills to attain these goals.

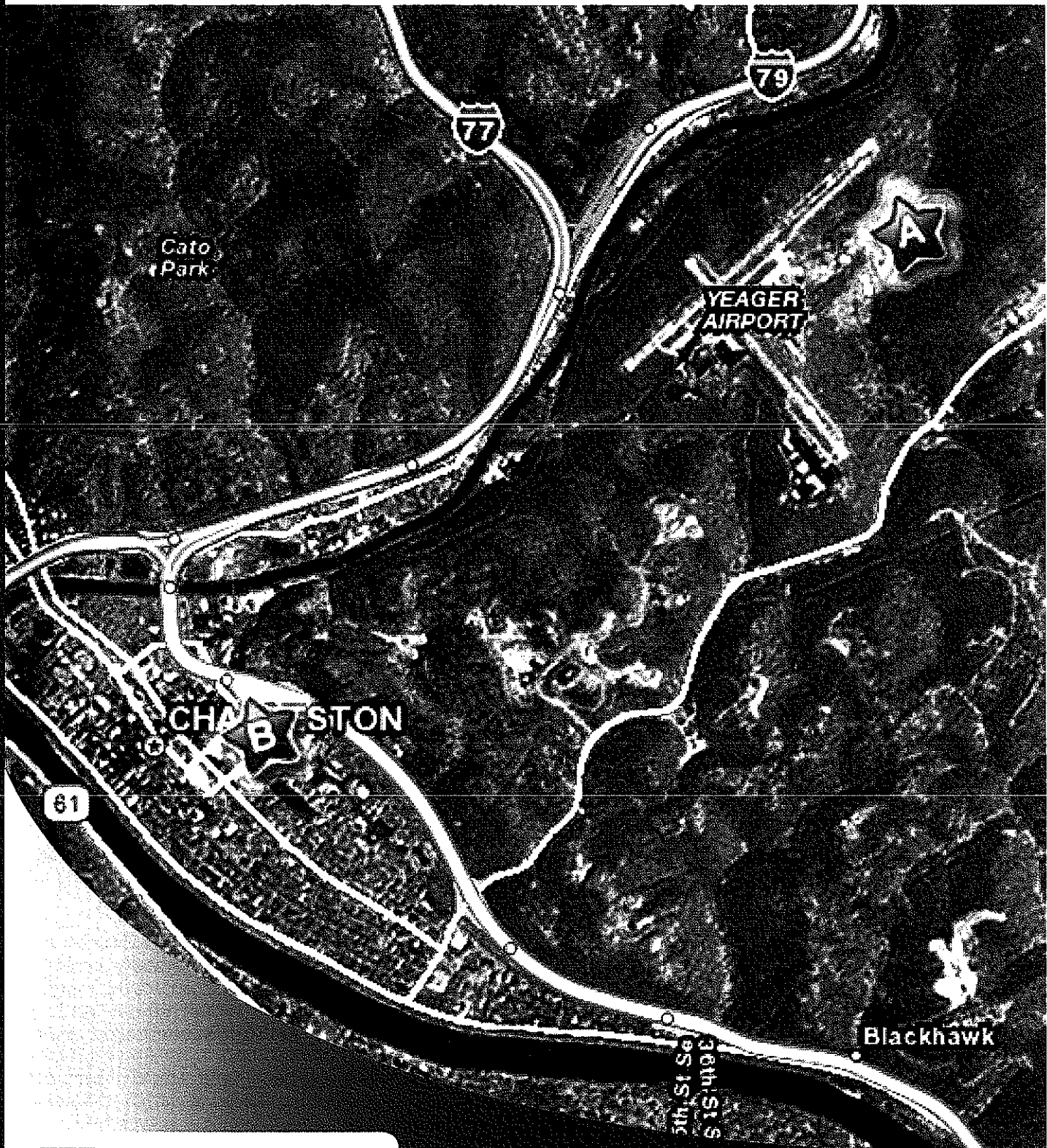
The firm uses a number of different cost estimating procedures depending on the type and size of project. Our ability to design within budget is shown in the following, which represent some of our recently bid projects:

<u>PROJECT</u>	<u>BUDGET</u>	<u>ACTUAL</u>	<u>DIFFERENCE</u>	<u>+/-</u>
Wood Co. - Williamstown HS	\$11,635,000	\$11,253,000	\$382,000	-3.39%
Weirton State Building	\$4,291,000	\$4,083,000	\$208,000	-5.09%
Hancock Co. Schools	\$11,000,000	\$11,260,000	\$260,000	+2.36%
WV Northern Annex	\$7,900,000	\$6,850,000	\$1,050,000	-15.33%
WV Northern Phase II	\$1,200,000	\$1,194,000	\$6,000	-0.50%
Wheeling YMCA	\$2,200,000	\$2,100,000	\$100,000	-4.76%
WVU Colson Hall	\$5,400,000	\$5,500,000	\$100,000	+1.85%
John Marshall Fieldhouse	\$3,755,000	\$3,518,000	\$237,000	-6.73%
Central Elementary	\$3,037,000	\$3,017,000	\$20,000	-0.66%
Maxwell Centre	\$1,800,000	\$1,734,000	\$66,000	-3.81%

The Marshall County School Bond Project's total budget is \$37,000,000.
To date, we are \$1,000,000 under budget.

Proximity

With our **Charleston Office** being **less than 5 miles** from the **Coonskin Park Area** at the **Charleston Armory Complex** at **1707 Coonskin Drive**, you can be assured that you will receive the best service for your proposed project.



Quality Control

Quality control at McKinley & Associates, Inc. is a constant process which begins with the initial project activity and continues through document submissions, construction and owner occupancy. The longevity and size of the firm and our history of success completing complex and innovative projects is founded upon our commitment to this process.

During the design phases all personnel become fully versed in the client's program, project requirements and design standards. The design team is responsible for identifying for the client any potential conflicts between program criteria and design standards and resolving those conflicts to the client's satisfaction.

As the schematic/concept plans are developed, the Project Manager typically presents the plans for review and comments to a plan group depending on the nature of the work; e.g. engineers commenting on the engineering and architects critiquing the architecture. Once a consensus is reached, the plans advance in the process.

Prior to the completion of each phase, a set of project documents is issued to each discipline and consultant for coordination, cross-checking and review. The following items are checked at that time:

- Drawings and specifications for program compliance.
- Drawings and specifications for internal coordination.
- Cost effectiveness of the design.
- Drawing accuracy.
- Compliance with appropriate codes and client standards.

After coordination check corrections are completed, the project architect reviews the documents and compares the completed documents with check prints to verify that corrections have been made in accordance with the project design criteria. A final review is made by the principal-in-charge.

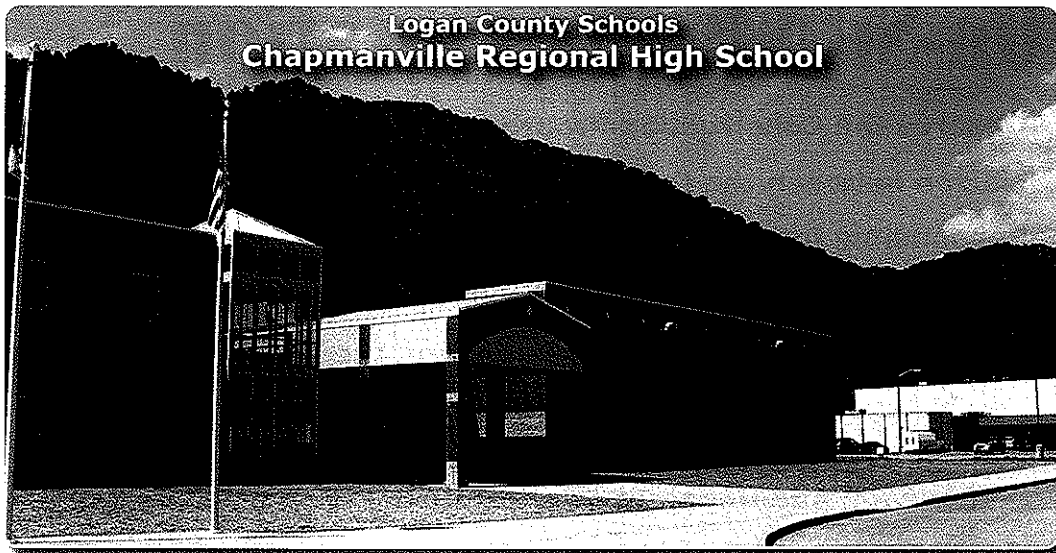
During the subsequent phases of design, all items are checked by persons other than those performing the daily design work in order to provide fresh insight. Prior to the final release of the documents, revisions are checked by the project manager and appropriately referenced on the drawings. Copies of the final documents are distributed to the client and consultants for final review and approval. Comments are incorporated into the documents prior to issuance for bidding and construction.



Bid documents are issued after a final check to verify that all bid packages have current revisions included and are appropriately identified. Bid sets are numbered and registered to bidders so that each bidder may be kept informed of clarifications and addenda.

During the construction, the processing of shop drawings and submittals is controlled and monitored by the project manager. The standard turnaround for the receipt, logging, review and return of submittals is 10 working days. Complicated or specialized submittals may require additional time. Urgent items can often be expedited to satisfy the construction schedule.

Cost Effective Design



- Most Cost Effective New School Design in the Past 4 Years
- CRHS's final price ~ \$158.41/SF – source: SBAWV (includes site development, building construction, and all FF&E)
- New High School State Average in 2005 ~ \$188.26/SF
- 138,500 Square Feet
- Total Non-Owner Change Orders – 0.65%



- SBA's 2009 Limit on New Elementary School Design ~ \$217/SF
- Hilltop Elementary's final price ~ \$167/SF (includes site development, building construction, and all FF&E)
- 49,700 Square Feet
- Total Non-Owner Change Orders – 0.83%
- Construction complete with potential LEED Silver Certification

Construction Administration & On-Site Representation

Observe the Construction Progress

Liaison between the Owner, Contractor, and Architect

Responsible for All Construction Meetings and Minutes

Monitor the Construction Schedule

Ensure that the Contractor is Following the Construction Documents

Verify Pay Application and Change Orders

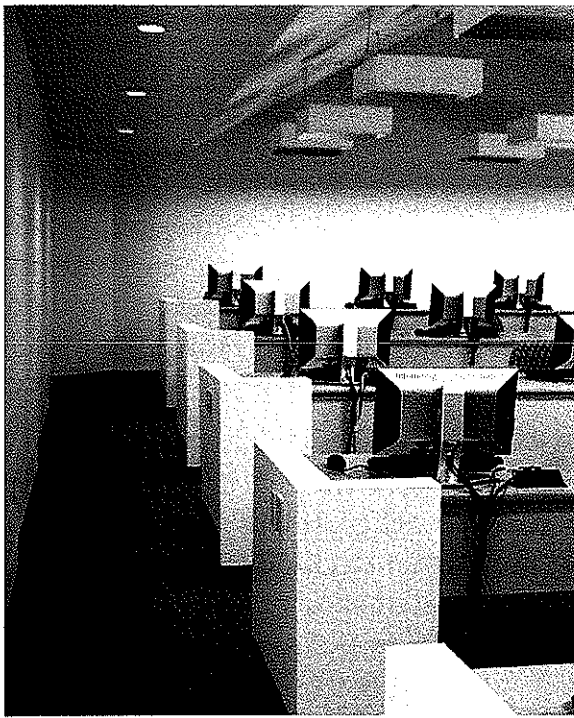
Typically On-Site Once Every Two Weeks

(Provide Additional On-Site Representation if Requested)



Our Project Coordinators have an extra responsibility than what most firms' Construction Administrators have; our Project Coordinators are a part of the design process from **Day 1** (they are not thrown into the project only when construction starts; they are here from the beginning), so they know the ins-and-outs of the project. Our Project Coordinators have an important role as being the **liaison between the Owner, Contractor, and Architect**. The primary objective of the Project Coordination services is to ensure completion of work the way the client wants it - **as scheduled and as budgeted**. Our Project Coordinators evaluate the quality of the work to verify that it meets the level required by clients; in addition, they monitor the contractor's progress to ensure that they are following the Construction Documents. They observe the construction progress, are responsible for all construction meetings and minutes, and they verify pay application and change orders. The Project Coordinator is typically on-site once every two weeks, but we can provide additional on-site representation if requested.

Interior Design



Basic interior services begin with a strategy session designed to determine the owner's project requirements, timetable and budget. The interviews will include analyzing space requirements, operating procedures, communication relationships and future needs. Inventory of existing conditions are used to develop accurate drawings and plans. Application of current ADA and building codes will be applied to the developed plans for way finding (signage, directories, fire escape plan), furnishings and finishes. Attention to budget and maintenance is given in relationship to owner needs. Construction documents required to detail the project include schedules, elevations, plans, presentation boards and specifications. To maintain coordination, the follow up contract administration consists of submittal review, post construction evaluation and coordination of FF&E contracts when applicable.



Deb Blakeman, NCIDQ #015070, is knowledgeable and has experience with application of ADA regulations, ergonomic standards, state building code and industrial standards as they apply to interior furnishings, space planning and finishes. Improving comfort through lighting and ergonomically sound furnishings will increase employee performance. Efficient spaces aid in organization, and work flow, by decreasing communication barriers.



Sustainable "Green" Design

Buildings designed today will need to meet the demands of the future; McKinley & Associates identifies the changes necessary in the design of today and to meet these demands. This approach helps to retain the buildings' long-term profitability and value, which achieves the buildings' **sustainability**.

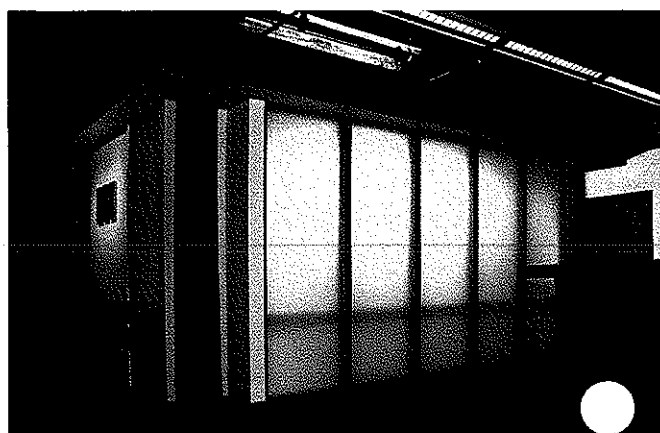
McKinley approaches ecological design from a business perspective, offering **proactive** solutions to complex problems such as indoor air quality, energy efficiency, resource depletion, and water quality. With commercial and institutional project experience, the McKinley Team can work alongside local designers to provide sustainable design and construction guidance. We also offer full architectural design services and guided design workshops on sustainable design issues.

Our Philosophy is to provide our clients with experienced leadership as well as state-of-the-art and **innovative** design expertise to accomplish the goals of your projects. Function, economics and versatility, in addition to the development of **strong aesthetic appeal**, are crucial elements in our design process. We also believe that enhancement of the physical environment in which each individual lives and works should add significantly to the enjoyment of life. Our firm has dedicated our professional skills to attain these goals.

Hilltop Elementary School is one of our many projects that we designed using **energy efficient** and **sustainable design** approaches. It was not until after construction had commenced that the Owner decided to submit for LEED certification. This required a great deal of coordination with the architects, engineers, subcontractors and suppliers. Since we incorporated **good sustainable design practices** from the beginning, this allowed for an easy transition, and for the project to be successfully completed in July 2009.



McKinley and Associates has been honored to have won some very notable awards and to have received some very prestigious nominations over the years. We recently won a **West Virginia Chapter of the American Institute of Architects 2009 Merit Award** for our newly renovated Charleston Office; a project led by Thom Worlledge.



View of our award-winning Charleston Office renovation showing our centrally located conference room "Lantern." This glows all day long through the translucent walls, which are illuminated with natural daylight from a skylight above.

Leadership in Energy and Environmental Design



LEED® (Leadership in Energy and Environmental Design) Green Building Rating System™ developed by the U.S. Green Building Council (USGBC) is the nationally accepted standard for the design, construction, and operation of high performance green buildings. LEED recognizes that sustainable design requires a **team approach** to achieve the desired goals, and we have LEED Accredited Professionals (LEED AP and LEED AP BD+C) in both the architectural and engineering fields. We have **4 LEED Accredited Professionals** on staff, along with our skilled architectural/engineering team, who will efficiently and cost effectively achieve certification under this standard or we can guide you through the process in order to develop sustainability goals specific to your project.

We have **4 LEED® Accredited Professionals** on staff (including the Project Manager for your proposed project) in **both the architectural and engineering fields:**

Michael S. Betsch, LEED AP

Bradley A. Crow, PE, LEED AP

Christina Schessler, AIA, LEED AP

Thomas R. Worlledge, AIA, LEED AP BD+C, REFP (Your Project Manager)

Our **LEED Registered Projects** are (LEED Rating System in parentheses):

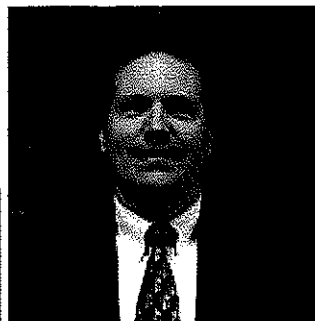
Bellann in Oakhill, WV (LEED EB O&M)

Cameron Middle School/High School in Cameron, WV (LEED for Schools 2.0)

Hilltop Elementary School in Sherrard, WV (LEED for Schools 2.0)

West Virginia State Office Building in Logan, WV (LEED NC 2.2)

All 4 of our LEED Registered Projects are either under construction or under design with potential **LEED Certification** (Bellann) or potential **LEED Silver Certification** (Cameron Middle School/High School, Hilltop Elementary School, and the West Virginia State Office Building).



The LEED AP Specialty Logos signify advanced knowledge in green building practices and specialization in a particular field. The LEED AP BD+C represents specialization in commercial design and construction.

Thomas R. Worlledge, AIA, LEED AP BD+C, REFP has been a member of the USGBC since 2001. He was the first LEED Accredited professional in the state of West Virginia and has served on the committee that sets the standards for the international energy code.

McKinley & Associates Charleston Office



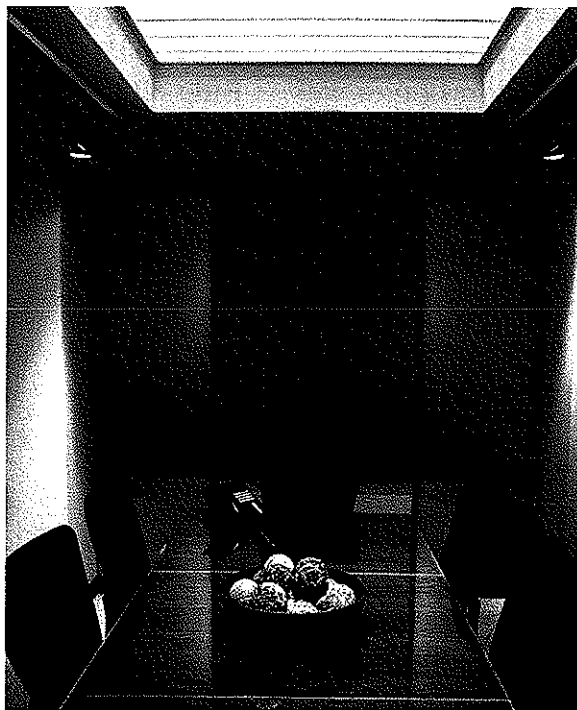
Besides the paint, what makes this office "green"?

McKinley & Associates has been practicing "green" for years and has won awards for converting unused warehouse space into striking modern office buildings. One of the best ways to build green is to adapt an existing building; twenty percent of a building's energy consumption is embodied in the building's physical structure itself.

We recently won a West Virginia Chapter of the American Institute of Architects 2009 Merit Award for our newly renovated Charleston Office. The first thing you will notice is we left most of the existing structure exposed; this minimizes the amount of new materials required to define the space and allowed us to utilize some special features. For example, our centrally located conference room "Lantern" glows all day long from natural sunlight from above. This room's ceiling acts as a reflector, bouncing natural light throughout the space.



In addition to reusing the space, we also reused doors to make all of the desks, workstations and conference table. The top of the dividers is made from "Homosote", a board made from 100% recycled newspapers and covered with a fabric made from 100% recycled polyester. An office full of unique, durable office furniture for less than 1/10th of the cost of standard modular furniture is another advantage.



The office chairs are new, but the "Zody" chair by Haworth is the first chair to be Cradle to Cradle Gold Certified. This certification means that the manufacturer will take back the chair at the end of its useful life to disassemble and make a new chair, completing the cycle.

Yes, the paint on the walls is green, but it also has very low volatile organic compounds (VOC's) which keeps the air we breathe cleaner, and contains an anti-microbial which inhibits the growth of mold and mildew.

Most of the floor we chose to clean and seal with water based polyurethane, leaving the natural distressed state of the floor. The remainder of the space, we used a carpet tile by LEES which minimizes waste, has 35% recycled content and is Green Label Certified, meaning it meets stringent indoor air quality requirements.

The window blinds allow the control of glare while maintaining the view and minimizing heat gain. The direct/indirect lights are controllable so we can adjust the amount of electric lighting dependant on the amount of natural light coming in from the windows and the skylight. Even the bowl on the conference room table is recycled from the original fire bell that used to be on the exterior of the building.

Design Team

Project Manager / Point of Contact

Thomas R. Worlledge, AIA, LEED AP BD+C, REFP

Architectural Team

Thomas R. Worlledge, AIA, LEED AP BD+C, REFP

Nicole D. Riley, Assoc. AIA

Patrick J. Rymer, Assoc. AIA

Engineering Team

Bradley A. Crow, PE, LEED AP

Director of Engineering Services / Mechanical Engineer / LEED Attributes

Tim E. Mizer, PE, RA

*Director of Operations /
Architectural Engineer*

Travis Petri, EIT

Engineer Intern

Russell McClure

Senior Electrical Designer

Michael A. Heath

Fire & Life Safety Designer

Darren S. Duskey, PE

Electrical Engineer

William D. Ciprella

Senior Mechanical Designer

Scott D. Kain

Plumbing & Electrical Designer

Allison M. Carmichael

Civil Site Designer

Consultant - Civil/Site Engineering

Triad Engineering, Inc. 

Energy Efficient ("Green") Design

Thomas R. Worlledge,
AIA, LEED AP BD+C, REFP
Architectural Attributes

Christina Schessler,
AIA, LEED AP
Architectural Attributes

Michael S. Betsch, LEED AP
Architectural Attributes

Bradley A. Crow, PE, LEED AP
Engineering Attributes

Interior Design

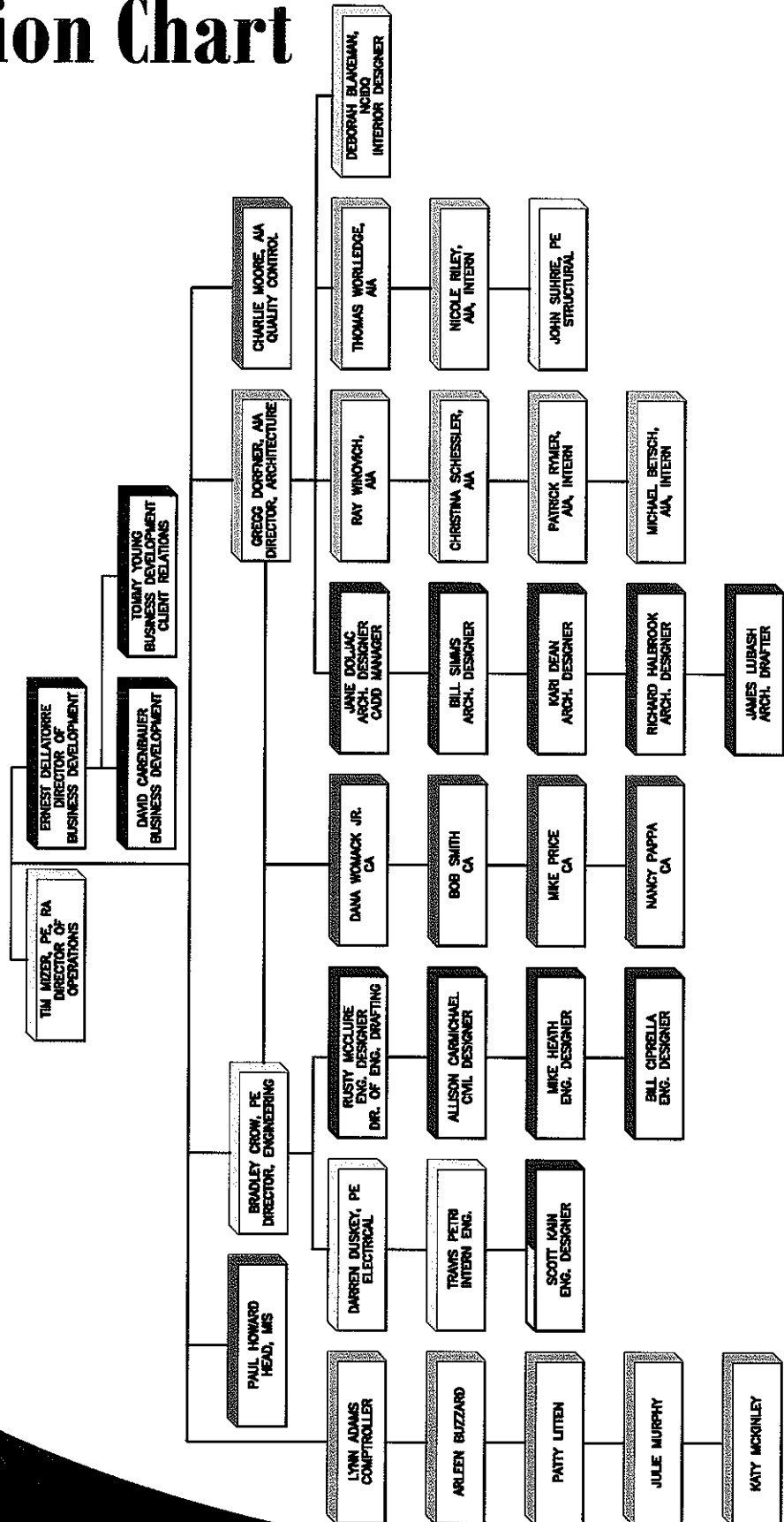
Deb Blakeman, NCIDQ #015070

Construction Administration

Dana E. Womack, Jr.

Organization Chart

Revised 1/24/11



Thomas R. Worlledge, AIA, LEED AP BD+C, REFP

Charleston Office Area Manager



Architect / LEED Accredited Professional / Educational Specialist

EDUCATION:

Virginia Polytechnic Institute & State University
Master of Architecture - 1992

Fairmont State College, School of Technology
B.S. Architectural Eng. Tech. - 1983

PROFESSIONAL AFFILIATIONS AND REGISTRATIONS:

Registered Architect in:

West Virginia
Virginia
Pennsylvania
Ohio

National Board Certification:

NCARB #48600

President:

West Virginia Society of Architects

Member:

The American Institute of Architects
US Green Building Council
Sustainable Building Industries Council
Recognized Educational Facility Professional

Former voting member:

ASHRAE 90.1 International Energy Code
Committee

PROFESSIONAL EMPLOYMENT:

McKinley & Associates
Manager, Charleston Office
Charleston, WV (2005 to present)

Proactive Architecture Inc.
President
Charleston, WV (1999-2005)

Silling Associates Inc.
Vice President
Charleston, WV (1992-1999)

TAG Architects
Charleston, WV (1985-1990)

Alpha Associates Inc.
Morgantown, WV
(1983-1985)

SUMMARY OF EXPERIENCE:

Mr. Worlledge is a skilled Architect with over 20 years experience who has received state wide design awards (including a West Virginia Chapter of the American Institute of Architects 2009 Merit Award in Sustainable Design) and placed in national design competitions. As a **LEED Accredited Professional** and a recognized sustainable design expert, he has had articles published in state and national trade publications, spoken before architectural students, ASHRAE chapters, and business groups on sustainable design issues and was also a featured speaker at the 2001 Governor's Conference on the Environment and the 2001 Sustainable fair. He also teaches other design professionals in the art of High Performance School design, as a professional trainer for the Sustainable Building Industries Council. Mr. Worlledge has been involved in design of projects ranging in from a small home additions (one of which was featured on HGTV's New Spaces Show) to multimillion dollar projects such as the new West Virginia State Building in Logan, which will be LEED Silver Certified. Mr. Worlledge is a former voting member of the ASHRAE 90.1 Standards committee that forms the basis of the International Energy Code and is the president of the state chapter of the AIA.

NOTABLE PROFESSIONAL EXPERIENCES:

Marshall County Schools - Hilltop Elementary School (LEED Registered Project)

West Virginia State Building in Logan, WV (LEED Registered Project)

Bellann in Oakhill, WV (LEED Registered Project)

McKinley & Associates Charleston Area Office (2009 WV AIA Design Award winner)

WV State Police Academy - Renovations to Buildings A, B, and C; New Building D (Shooting Range Control Center)

WV State Police Academy Multi-purpose Building (in design)

VAMC Beckley

WVU Institute of Technology - Maclin Hall

Wood County Schools - Parkersburg High School

PROMINANT PROFESSIONAL ACHIEVEMENTS:

High Performance Design for High Performance Companies
Published in *Executive Source*, Fall 2002

Watt's Next? The Coming Energy Revolution
Published in *West Virginia Executive*, Winter 2004

The Design of Sustainable Environments
Featured Speaker, 1994 National Convention of Architectural Students

Daylighting and HVAC Design
Featured Speaker, ASHRAE West Virginia Chapter

Rebuilding the Future: Recycling and Reuse of Building Materials
Featured Speaker, 2001 Governor's Conference on the environment

Nicole D. Riley, Assoc. AIA

Architect Intern

EDUCATION:

Virginia Tech, College of Architecture
Bachelor of Architecture - 1998

PROFESSIONAL AFFILIATIONS AND REGISTRATIONS:

NCARB

Associate Member:

The American Institute of Architects

Member:

AIA 150 Celebration Steering Committee
AIA Livable Communities Committee
Charleston Area Alliance, Young
Professionals Housing Sub-Committee
Young Life Committee of Kanawha Valley

PROFESSIONAL EMPLOYMENT:

McKinley & Associates
Wheeling, WV (2005 to present)

Williamson Shriver Architects
Charleston, WV (2003-2005)

ZMM, Inc. Architects and Engineers
Charleston, WV (1999-2003)

The Omni Associates
Fairmont, WV (1999)

SUMMARY OF EXPERIENCE:

Mrs. Riley's tenure as design professional has taken her through many aspects of project delivery and construction throughout West Virginia. This experience includes a wealth of works for several county school systems, the West Virginia Army National Guard, as well as multiple private clientele. A family background in masonry construction and a keen interest in historical elements are recognized through her understanding and usage of natural materials in a contemporary context. Mrs. Riley is active in coordination during the design process, culminating in a sound package for the client.

NOTABLE PROFESSIONAL EXPERIENCES:

Designer/Production Team - *Robert C. Byrd Regional Training Institute, Kingwood, WV**

148,000 SF facility for the West Virginia Army National Guard - Camp Dawson. This facility contains temporary residences for officers, training and office areas, auditorium and conference space as well as dining facilities. Designer of Lobby tile and marquis design and assisted with various Interior Design elements and Construction administration tasks.

Project Captain - *Glen Jean Armed Forces Center, Glen Jean, WV**

110,000 SF joint project for the West Virginia National Guard and the United States Department of Defense includes an Armed Forces Reserve Center, Organizational Maintenance Facility and Military Entrance Processing Station. Responsible for all phases of document production with an emphasis on coordination with U.S. Department of Defense and various engineering consultants.

Project Manager - *McKinley & Associates Charleston Area Office*

The new McKinley & Associates Charleston Area Office is a 2,500 SF office space for our architectural, engineering, and interior design staff. This 2009 AIA Merit Award-winning interior renovation project was constructed for \$63.30/SF with owner occupancy ahead of schedule. Managed budget, schedule, construction administration, vendor relations and material purchasing.

Project Manager - *Sherrard Middle School, Marshall County*

This project included the demolition, renovations and additions to the 69,324 SF educational facility. Scope of work included new dining and classroom facilities, new commercial kitchen and emphasis on security. This facility is one of ten system-wide coordinated access control.

Design Team - *Parkersburg South High School*

Selective demolition and comprehensive renovations and additions to 250,000 SF campus, whose original design period spanned the decades of 1950-1970. Design facets included state-of-the-art technological and science updates as well as new music facilities including an auditorium. Renovation design implemented ADA and Safe Schools initiatives. New Day Care facility was designed for the school system's training curriculum.

**previous work experience with a firm other than McKinley & Associate*

Patrick J. Rymer, Assoc. AIA

Architect Intern

EDUCATION:

University of Tennessee
Bachelor of Architecture - 1999

Memphis Center for Design - 1998

PROFESSIONAL AFFILIATIONS AND REGISTRATIONS:

ASSOC. AIA

NCARB

IDP

ArchNet

PROFESSIONAL EMPLOYMENT:

McKinley & Associates
Wheeling, WV (2005 to present)

Capitol Engineering
Charleston, WV (2003-2005)

United Brotherhood of Carpenters & Joiners
(2000-2003)

SUMMARY OF EXPERIENCE:

Mr. Rymer brings over eight years experience in the building design and construction industry. His recent relevant experience includes the project management of several projects, as well as the lead design and construction administration of various Federal, State, County Government and private projects. Bringing a diverse background from the hands on experience of an apprenticeship in the construction trades to project management of multi-million dollar facilities, Mr. Rymer has an intimate understanding of building and design on a holistic level.

NOTABLE PROFESSIONAL EXPERIENCES:

Project Management:

West Virginia Army National Guard:

Camp Dawson/Fueling Canopies*

Parkersburg Army Aviation Support Facility / Taxiway Repair*

Tyler Co Bus Maintenance Garage

West Virginia State Police:

Jackson County Detachment

Kanawha County Troop 4 Headquarters

Berkeley County Detachment

Marshall County Schools:

New Cameron Middle/High School (LEED)

Cameron Elementary / Pre-K Classroom Building Addition

Cameron Fieldhouse / Over 1200 Seat Athletic Facility

Cameron Schools / Roof Replacements

Wood County Schools - Parkersburg South High School

Braxton County Senior Citizen Center / 14,000 SF Addition
and Renovation

Regional Economic Development Office, Wheeling:

Parking Facility

Adaptive Reuse Warehouse Study

Project Design & Construction Administration:

St Matthews Episcopal Church / Parish Hall Renovations

Glen Jean WVANG-AFRC-MEPS Facility*

Parkersburg AASF Apron Rehabilitation*

Williamson Armory, WVANG Wash Pad & Military Parking*

Summersville Readiness Center*

Lewisburg Readiness Center*

**previous work experience with a firm
other than McKinley & Associates*

Bradley A. Crow, PE, LEED AP



Director of Engineering Services

Mechanical Engineer / LEED Accredited Professional

EDUCATION:

West Virginia Institute of Technology
B.S. Mechanical Engineering

PROFESSIONAL AFFILIATIONS AND REGISTRATIONS:

Registered Engineering in:
West Virginia
Pennsylvania

LEED® Accredited Professional

PROFESSIONAL EMPLOYMENT:

McKinley & Associates
Director of Engineering
Wheeling, WV (2005 to present)

BDA Engineering
Design Engineer / Project Manager
Pittsburgh, PA (2001-2005)

Tri-State Roofing
Sales Engineer
Davisville, West Virginia (2000-2001)

Ravenswood Polymers
Site Engineer
Ravenswood, West Virginia (1997-2000)

SUMMARY OF EXPERIENCE:

Mr. Crow is an exciting and innovative Engineer who is on the cutting edge of his profession, being both a Professional Engineer as well as a **LEED® Accredited Professional**. His passion for his work translates into incredible design for his clients. His broad experience includes design for HVAC and plumbing for educational facilities, office buildings, shopping centers, apartment buildings, and other commercial and institutional facilities. Brad also has experience as a Site Engineer and Sales Engineer, which provides an unique understanding for problem solving.

NOTABLE PROFESSIONAL EXPERIENCES:

Mechanical Engineer

West Virginia Army National Guard - Multi-Purpose Building at Camp Dawson

West Virginia Army National Guard - Mountaineer Challenge Academy at Camp Dawson

WVU State Fire Training Academy / Jackson's Mill

Cabela's Eastern Distribution Center

West Virginia State Police Academy - multiple buildings

Charleston Area Alliance Building - Warehouse to Office Buildout

USPS - Charleston Processing and Distribution Center

Panhandle Cleaning & Restoration warehouse and office building

West Virginia State Building in Logan, WV (LEED)

Wheeling Island Fire Station

WVU Colson Hall renovations

WVU Institute of Technology - Maclin Hall

Marshall County Schools - Hilltop Elementary (LEED)

Marshall County Schools - Cameron Middle/High School (LEED)

Wood County Schools (\$63+ million renovations)

West Virginia State Police - New Logan Detachment

Bennett Square Office Building

Dr Ganzer Office Building

West Virginia Independence Hall

USPS - Martinsburg Processing and Distribution Center



McKINLEY & ASSOCIATES
ARCHITECTS • ENGINEERS • INTERIOR DESIGN

Tim E. Mizer, PE, RA

Director of Operations

Architectural Engineer / Architect / Quality Control

EDUCATION:

Kansas State University
B.S. Architectural Engineering - 1983

University of Cincinnati
Architecture

PROFESSIONAL AFFILIATIONS AND REGISTRATIONS:

Registered Engineering in:
West Virginia
Ohio

Registered Architect in:
Ohio

PROFESSIONAL EMPLOYMENT:

McKinley & Associates
Architect / Engineer
Wheeling, WV (1995 to present)

M.C.C. Engineering
Director of Design
Columbus, Ohio (1988-1995)

Schooley Caldwell and Associates
Electrical & Mechanical Design
Columbus, Ohio (1986-1988)

Mizer Design
Free Lance Architectural Engineering Design
Columbus, Ohio (1985-1986)

Envirotek, Inc.
Drafting and Electrical & Mechanical Design
Raleigh, NC (1984-1985)

SUMMARY OF EXPERIENCE:

A very talented and unique professional who is registered both in engineering and architecture. Mizer's background as an Architectural Engineer has provided him with a total understanding of the engineering components which provides a cohesiveness on all of his projects. Being also a Registered Architect, he understands designing to allow for the engineering disciplines, including his responsibility of project management and design. Mr. Mizer is the Head of Operations for the company.

NOTABLE PROFESSIONAL EXPERIENCES:

West Virginia Army National Guard - Mountaineer Challenge Academy at Camp Dawson in Kingwood, WV

West Virginia Army National Guard - Multi-Purpose Building at Camp Dawson in Kingwood, WV

West Virginia State Police - renovations and new detachments
Also surveyed, reviewed, projected, budgeted, and documented 72 police facilities statewide

WVU State Fire Training Academy / Jackson's Mill

Cabela's Eastern Distribution Center

West Virginia Independence Hall renovations

Capitol Theatre renovations

Wheeling Island Casino - various projects

Panhandle Cleaning & Restoration warehouse and office building

Orrick Building

Maxwell Centre

Wagner Building

Bennett Square Office Building

Millennium Centre

West Virginia State Building in Logan, WV (LEED)

West Virginia State Building in Weirton, WV

Marshall County Schools - Hilltop Elementary (LEED)

Marshall County Schools - Cameron Middle/High School (LEED)

WVU Colson Hall renovations/upgrade

WVU Institute of Technology - Maclin Hall

Marshall County Schools (\$38+ mil.)

Wood County School Bond Project (\$63+ mil.)

USPS - designed over 100 Post Offices throughout West Virginia for ADA compliance

Darren S. Duskey, PE

Electrical Engineer

EDUCATION:

The Ohio State University
B.S. Electrical Engineer - 1993

Marshall University
Graduate courses in Engineering

PROFESSIONAL AFFILIATIONS AND REGISTRATIONS:

Registered Professional Engineer in:
West Virginia
Ohio

PROFESSIONAL EMPLOYMENT:

McKinley & Associates
Wheeling, WV (2002 to present)

Pickering Associates
Parkersburg, WV (1997-2002)

Magnetic Specialty, Inc.
Marietta, OH (1995-1997)

Inland Products, Inc.
Columbus, OH (1993-1995)

SUMMARY OF EXPERIENCE:

Mr. Duskey has 10 years of experience in the industrial, commercial, institutional, and educational markets with projects ranging from State Police detachment offices, electrical design of schools, health care facilities, large and small industrial projects, and commercial properties. He has extensive knowledge and experience with the National Electrical Code, state building codes, building industry standards and practices, and has demonstrated the ability to design qualitative and economic solutions to a myriad of challenges.

NOTABLE PROFESSIONAL EXPERIENCES:

Electrical Engineer

West Virginia Army National Guard - Mountaineer Challenge Academy at Camp Dawson in Kingwood, WV

West Virginia Army National Guard - Multi-Purpose Building at Camp Dawson in Kingwood, WV

WVU State Fire Training Academy in Jackson's Mill, WV

Cabela's Eastern Distribution Center [New large (~1,000,000 SF) distribution center services, electrical design]

Panhandle Cleaning & Restoration warehouse and office building

West Virginia State Building in Logan, WV (LEED)

Chapmanville Regional High School - Logan County Schools (*New school service, electrical design*)

West Virginia University - Colson Hall (*Upgrade electrical service, including medium voltage distribution, renovations*)

WVU Institute of Technology - Maclin Hall (*Upgrade electrical service, renovations*)

West Virginia Northern Community College - The Education Center (*Upgrade electrical service, renovations*)

Marshall County Schools - Hilltop Elementary (LEED)

Marshall County Schools - Cameron Middle/High School (LEED)

WVSP Headquarters (*Upgrade electrical service*)

WVSP detachment in Berkeley County (*Upgrade electrical service, renovations*)

West Virginia State Building in Weirton, WV

Bennett Square Office Building

United States Postal Service - statewide post offices

Boone County Schools - electrical upgrades and data cabling at Van Junior/Senior High School, Brookview Elementary, Madison Middle, Sherman Junior High, Sherman High, Nellis Elementary, Scott High, Whitesville Elementary and Van Elementary

Travis Petri, EIT

Engineer Intern

EDUCATION:

West Virginia University
B.S. in Mechanical Engineering - 2003

PROFESSIONAL REGISTRATIONS:

Engineer Intern

PROFESSIONAL EMPLOYMENT:

McKinley & Associates
Project Engineer
Wheeling, WV (2006 to present)

Petri Detailing
Owner/Sole Proprietor
Wheeling, WV (2000 - 2006)

Mountaineer Gas Company
Engineering Internship
Wheeling, WV(1999)

SUMMARY OF EXPERIENCE:

Mr. Petri is skilled in the complete design and project management of mechanical systems, whether it is renovations or new construction. He has worked on several LEED projects, performed multiple energy studies, and can provide recommendations to building owners to provide energy savings.

NOTABLE PROFESSIONAL EXPERIENCES:

West Virginia Army National Guard - Mountaineer Challenge Academy at Camp Dawson

Southern WV Community & Technical College - Williamson campus

Southern WV Community & Technical College - Wyoming/McDowell campus

West Virginia Northern Community College - B&O Building

Marshall County Schools - Cameron Middle School / High School (LEED registered project)

Marshall County Schools - Hilltop Elementary School (LEED registered project)

Wood County Schools - Parkersburg High School

Wood County Schools - Parkersburg South High School

Wood County Schools - Williamstown High School

Ohio County Schools - Bridge Street Middle School

Marshall County Schools - Washington Lands

Hancock County Schools - Oak Glen High School

Hancock County Schools - Weir Middle School / High School

West Virginia Independence Hall

Logan State Office Building (LEED registered project)

Braxton Co Senior Center

West Virginia State Police - Logan Detachment

West Virginia State Police - Academy

United States Postal Service - multiple projects

William D. Ciprella

Senior Mechanical Designer

PROFESSIONAL AFFILIATIONS AND REGISTRATIONS:

ASHRAE

PROFESSIONAL EMPLOYMENT:

McKinley & Associates
Wheeling, WV (2009 to present)

Burt Hill
Pittsburgh, Pa (2007-2009)

McKinley & Associates
Wheeling, WV (2005 to 2007)

Astorino Branch Engineers
Pittsburgh, PA (1995-2005)

SUMMARY OF EXPERIENCE:

Mr. Ciprella brings 45 years experience designing HVAC systems for industrial, institutional, and commercial facilities. He has 26 years experience using Autocad software, and twelve years using Microstation software. In addition, Bill has 35 years experience using computerized heating and cooling load calculation software. He has worked on the UPMC Cancer Centers, UPMC Passavant East Wing Addition, various projects at the Children's Hospital of Pittsburgh, Presbyterian Hospital of Pittsburgh, and various VAMCs in Pennsylvania.

NOTABLE PROFESSIONAL EXPERIENCES:

West Virginia Army National Guard - Multipurpose Building
West Virginia University - Colson Hall
Marshall County Schools - Cameron Middle School / High School (LEED)
Wood County Schools - Parkersburg High School
Wood County Schools - Parkersburg South High School
Wood County Schools - Williamstown High School
Wood County Schools - Franklin Elementary School HVAC
Wood County Schools - Blennerhasset Middle School HVAC and boiler
Wood County Schools - Kanawha Elementary HVAC
Wetzel County Schools - Long Drain Elementary HVAC
Wetzel County Schools - New Martinsville School HVAC
Wetzel County Schools - Magnolia High School
Wetzel County Schools - Center for Children & Families
Wetzel County Schools - Maintenance Facilities
United States Postal Service - Williamson, WV
United States Postal Service - HVAC in Grafton, WV
United States Postal Service - Clarksburg, WV
United States Postal Service - Charleston, WV
United States Postal Service - Huntington, WV
United States Postal Service - HVAC & Windows in Altoona, PA
United States Postal Service - New Cumberland, PA
United States Postal Service - Corry, PA
United States Postal Service - Monongahela, PA
United States Postal Service - HVAC in Washington, PA



McKINLEY & ASSOCIATES
ARCHITECTS • ENGINEERS • INTERIOR DESIGN

Russell McClure

Senior Electrical Designer

SUMMARY OF EXPERIENCE:

Mr. McClure is the seniormost designer in our firm. Specializing in electrical design, he has over 14 years experience at McKinley & Associates in electrical, HVAC, plumbing, structural and architectural design. He also has performed construction administration duties ranging from a single family housing complex to complete HVAC replacements on multi-million dollar projects. In the past two years, he has performed the electrical evaluations on all of the schools in our 14 counties' Comprehensive Educational Facilities Plans; over 160 schools in all.

PROFESSIONAL EMPLOYMENT:

McKinley & Associates
Wheeling, WV (1996 to present)

NOTABLE PROFESSIONAL EXPERIENCES:

West Virginia University - State Fire Training Academy
Cabela's Eastern Distribution Center
West Virginia University - Colson Hall renovations/upgrade
United States Postal Service - multiple projects
West Virginia State Police - multiple projects
West Virginia State Office Building in Logan, WV (LEED Registered)
Marshall County Schools - Cameron Middle/High School (LEED Registered)
Marshall County Schools - Hilltop Elementary School (LEED Registered)
WVU Institute of Technology - Maclin Hall
West Virginia Northern Community College - B&O Building
West Virginia Northern Community College - Education Center
Wood County Schools - Parkersburg High School
Wood County Schools - Parkersburg South High School
Wood County Schools - Williamstown High School
Marshall County Schools - John Marshall High School
Marshall County Schools - Sherrard Middle School
Marshall County Schools - Moundsville Middle School
Marshall County Schools - Central Elementary School
Boone County Schools - Scott High School electrical
Boone County Schools - Brookview Elementary School
Boone County Schools - Madison Middle School electrical
Boone County Schools - electrical upgrades and data cabling at Van Junior/Senior high School, Sherman Junior High, Sherman High, Nellis Elementary, Whitesville Elementary and Van Elementary
WV Independence Hall
Capitol Theatre
Catholic Heritage Center
Maxwell Centre
Orrick Building
Wagner Building
Bennett Square Office Building
Sisters of St. Joseph's Convent rehabilitation
Dr. Ganzer Office Building
US Can renovation
OVMC Nurses Residence Hall

Scott D. Kain

Plumbing / Electrical Engineering Designer

EDUCATION:

Technology Education College /
Ohio State University
Associates in Mechanical Design - 1996

PROFESSIONAL EMPLOYMENT:

McKinley & Associates
Engineering Designer
Wheeling, WV (2001 to present)

HAWA Inc.
Mechanical Designer
Columbus, OH (1998-2001)

Autotool Inc.
Engineer
Columbus, OH (1995-1998)

SUMMARY OF EXPERIENCE:

Mr. Kain is an accomplished engineering designer who has performed in all the engineering trades we provide; specializing in plumbing, fire protection, and electrical. He has also worked for various McKinley & Associates' projects that needed mechanical, structural, and architectural elements. In addition, Mr. Kain has also provided 3D renderings for various projects over the past 10 years.

NOTABLE PROFESSIONAL EXPERIENCES:

West Virginia University - State Fire Training Academy
West Virginia State Building in Weirton, WV
West Virginia State Police - Logan Detachment
West Virginia State Police - Academy
West Virginia University - Colson Hall renovations/upgrade
West Virginia University - Stalnaker Hall roof replacement
WVU Institute of Technology - Maclin Hall
West Virginia Northern Community College - B&O Building
West Virginia Northern Community College - Education Center
Glennville State College - R.F. Kidd Library
Wheeling Jesuit University - Erma Ora Byrd Center for Educational Technologies
Wheeling Jesuit University - Robert C. Byrd National Technology Transfer Center
Logan State Office Building (LEED registered project)
Marshall County Schools - Cameron Middle School / High School (LEED registered project)
Marshall County Schools - Hilltop Elementary School (LEED registered project)
Wood County Schools - Parkersburg High School
Wood County Schools - Parkersburg South High School
Wood County Schools - Williamstown High School
Ohio County Schools - Bridge Street Middle School
Logan County Schools - Chapmanville Regional High School
Hancock County Schools - Oak Glen High School
Hancock County Schools - New Oak Glen Middle School
Hancock County Schools - Weir Middle School / High School

Michael A. Heath

Mechanical, Fire & Life Safety Engineering Designer

EDUCATION:

ITT Technical Institute
Associate Degree in Specialized Technology:
Computer-Aided Drafting Technology - 2000

PROFESSIONAL EMPLOYMENT:

McKinley & Associates
Mechanical, Fire & Life Safety Designer
Wheeling, WV (2007 to present)

Janus, Inc.
AutoCAD Designer / Project Manager
Pittsburgh, PA (2002-2007)

Comunale Automatic Sprinkler
Fire Protection Designer
Pittsburgh, PA (July 05 - Oct 05)

S.A. Comunale Inc.
Fire Protection Designer
Pittsburgh, PA (2000-2002)

SUMMARY OF EXPERIENCE:

Mr. Heath brings a cross-trained design background to your project, and has vast knowledge in a diverse range of disciplines. He was trained by the National Fire Protection Association (NFPA) in Dallas, Texas, and has used these skills to work on projects from multiple business sectors and with various sizes, such as the 4 story, 1,500,000 square foot David L. Lawrence Convention Center in Pittsburgh, Pennsylvania. He has vast expertise in designing and calculating fire protection systems, standpipes, dry and wet systems, hydraulics, and water cannons; stock listing materials for systems; as well as surveying job sites and frequent business trips to coordinate jobs.

NOTABLE PROFESSIONAL EXPERIENCES:

West Virginia Army National Guard - Multipurpose Building at Camp Dawson

West Virginia State Office Building in Logan, WV (LEED Registered Project)

Cameron Middle School/High School in Cameron, WV (LEED Registered Project)

Capitol Theatre

West Virginia Independence Hall

J. B. Chambers Performing Arts Center at Wheeling Park High School - Ohio County Schools

For 14 West Virginia counties; provided Fire Protection and Mechanical assessments at every school, for their 10-year Comprehensive Educational Facilities Plan (CEFP).

Madison Elementary School

John Marshall Fieldhouse

McNinch Elementary School

Sherrard Middle School

Cameron Elementary School addition

Tyler County Schools - 3 HVAC projects

Allison M. Carmichael

Civil Site Designer

EDUCATION:

Youngstown State University
B.S. Civil Engineering Technology - 2000

Kent State University
Architectural Drafting Technology - 1983

PROFESSIONAL EMPLOYMENT:

McKinley & Associates
Civil Site Designer
Wheeling, WV (2006 to present)

Lynn, Kittinger & Noble Inc.
Staff Engineer
Warren, OH (2003-2006)

Engineering Services & Consultants Inc.
Staff Engineer
Youngstown, OH (2001-2003)

The Cafaro Company
Civil Engineering Technologist
Youngstown, OH (1992-2001)

A. C. Charnas & Associates
Drafter, Soil Technician
Warren, OH (1983-1992)

SUMMARY OF EXPERIENCE:

An extremely talented Designer with experience in planning, governmental permitting, design, construction documents, cost analysis and procurement, request for information during construction and inspections. Her qualifications include experience with site development for commercial, industrial, institutional, and residential properties.

NOTABLE PROFESSIONAL EXPERIENCES:

Responsibilities include design work and project management of site development projects that include commercial, institutional and residential

Concentration is in Zoning, Storm water management and Phase II Water Quality site implementation

Managed projects with clients to plan and design sites for residential, commercial and industrial use; from conceptual stage to securing project approvals for construction

Designed and developed contract documents

Estimated site construction costs

Performed construction inspection

Supervised and instructed co-employees on engineering projects

Secured project approvals through local, state and federal governmental organizations

Examples of projects included a residential subdivision consisting of fifty-five 0.50-acre lots; an 8-acre residential retirement facility; and an 18-acre construction and demolition debris landfill

Commercial Projects include banking, retail and restaurant sites; either stand-alone sites or outparcel development

Institutional Projects include additions, renovations and new site development

Christina Schessler, AIA, LEED AP



LEED Accredited Professional / Architect

EDUCATION:

The Pennsylvania State University
Bachelor of Architecture - 1986

PROFESSIONAL AFFILIATIONS AND REGISTRATIONS:

Registered Architect in:

West Virginia
Pennsylvania
Ohio

NCARB Certificate - 2005

LEED® Accredited Professional

Member:

American Institute of Architects
City of Wheeling - Building Codes Board
of Appeals

Former Member, Board of Director, & Treasurer:

The Midwife Center for Birth & Women's
Health / Pittsburgh, PA

PROFESSIONAL EMPLOYMENT:

McKinley & Associates
Wheeling, WV (2004 to present)

MacLachlan, Cornelius & Filoni Architects
Pittsburgh, PA (1999-2004)

Perfido Weiskopf Architects
Pittsburgh, PA (1996-1999)

T.L. Cox & Associates
Beaver, PA (1990-1996)

Valentour English Bodnar Architects
Mt. Lebanon, PA (1989-1990)

Kenny Williams & Williams Building
Diagnostics
Maple Glen, PA (1988)

SUMMARY OF EXPERIENCE:

Ms. Schessler has over 25 years of experience working one on one with a wide range of educational, professional, liturgical, medical and commercial clients. She is adept at developing space and utilization programs with clients who are unfamiliar with the architectural design process. Christina can provide direction to Clients who wish to develop a design and document program that is intended to achieve **LEED** Certification. Her skills include construction document preparation, consultant coordination and construction administration experience. As a volunteer and as a professional, Ms. Schessler has developed several projects for non-profit agencies on limited budgets.

NOTABLE PROFESSIONAL EXPERIENCES:

Project Architect

WVU Fire Training Academy / Jackson's Mill, WV

Wheeling Island Fire Station

Panhandle Cleaning & Restoration warehouse and office building

West Virginia Independence Hall

Steel Valley Regional Transit Authority roof

Grant County Schools / Multiple Projects

Braxton County High School (in association with Fairmont State University, as well as Fairmont Technical College)

Braxton County Senior Citizen Center

Bethany College Health and Wellness Center, renovation*

University of the South, Gaylor Hall Additions and Renovation*

University of Pittsburgh, Blaisdell Hall, New Theater and Arts Building*

Beaver Valley Burn Building site development*

The Beaver County Medical Center, Women's Health Center and Rheumatology Expansion*

Architect

The Midwife Center for Birth & Women's Health, Birthing Suites / Pittsburgh, PA* (**Non-Profit**)

Master Plan study for DePaul Institute for the hearing impaired*

Indiana University of PA, Uhler Hall Additions and Renovations*

Project Designer

United Cerebral Palsy Center, renovations and additions / Washington, PA* (**Non-Profit**)

Children's Home of Pittsburgh, interior renovations* (**Non-Profit**)

**previous work experience with a firm
other than McKinley & Associates*

Michael S. Betsch, LEED AP



LEED Accredited Professional

EDUCATION:

Drexel University (Philadelphia, PA)
Bachelor of Architecture - 2007

Delaware Technical and Community College
Associate, Architectural Engineering - 2000

PROFESSIONAL AFFILIATIONS AND REGISTRATIONS:

U.S. Green Building Council

LEED® Accredited Professional

PROFESSIONAL EMPLOYMENT:

McKinley & Associates
Wheeling, WV (2008 to present)

Stantec Architecture
Wilmington, DE; New York; and Vancouver
(2007-2008)

The Breckstone Group
Wilmington, DE (2006-2007)

Staikos Associates Architects
Wilmington, DE (2000-2006)

SUMMARY OF EXPERIENCE:

Mr. Betsch's project experience includes new construction as well as renovation of existing structures. Projects types include government, liturgical, private high security, educational, office, retail, institutional, residential, and historic preservation.

Mr. Betsch has proven success working with highly intricate project delivery scenarios such as phased renovations to active mission critical command and control centers, and modernization of highly publicized actively used government historical centers such as New York City's City Hall. With over 10 years of experience Mr. Betsch has had the opportunity to work for a varied group of clients in the US, Canada, and the Middle East. These clients have included Foreign Governments, Integrated Defense Providers, State and local governments, Historic Societies, Educational Providers, Public and Private Corporations, Condo Associations, and Private Home owners. As a **LEED® Accredited Professional** Mr. Betsch works to bring sustainable design solutions to work for the benefit of his clients and the community.

NOTABLE PROFESSIONAL EXPERIENCES:

New York City Hall / New York, NY*

General restoration and architectural coordination for extensive mechanical renovations of the interior of historic landmark originally built in 1811. A feasibility study was completed to obtain a **LEED certification**. In addition, a high-definition scan (a laser survey technology used to create three-dimensional electronic models), multi-media, mass media and audio/video upgrades were designed for the City Council.

Capitol Theatre / Wheeling, WV

Multiple renovation/restoration/upgrade projects on the historic theatre in downtown Wheeling, including life safety and code improvements, sprinklering, fire alarms, and a concession and restroom build out.

The Education Center / West Virginia Northern Community College in Wheeling, WV

Construction of an overpass that will serve as a connection between the College's B. & O. Railroad Building and the Education Center. This will provide students a quick and safe passage between buildings while avoiding traffic.

Weir High School / Hancock County Schools in Weirton, WV

\$5 million architecture and HVAC project involved the construction of new Mechanical Rooms at Buildings A and F.

Montgomery County Emergency Operations Center / Montgomery County, MD*

Programming, planning, design and contract documents for a 10,500 SF multimedia operations theater for 45 responders with support spaces, media briefing, etc.

Montgomery County Emergency Communications Center

Programming, master planning, design and preparation of contract documents for a 57,000 SF emergency communications facility

*previous work experience with a firm other than McKinley & Associates

Deb Blakeman, NCIDQ #015070



Interior Designer

EDUCATION:

University of Charleston
Bachelor of Arts, Interior Design - 1992

PROFESSIONAL AFFILIATIONS AND REGISTRATIONS:

**National Council for Interior
Design Qualification:**
NCIDQ #015070

Associate Member:

The American Institute of Architects

PROFESSIONAL EMPLOYMENT:

McKinley & Associates
Charleston, WV (2004 to present)

HDMR Group Inc
Charleston, WV (2000-2004)

Custom Office Furniture
Charleston, WV (1994-2000)

University of Charleston
Teacher
Charleston, WV (1997-2000)

Interior Design
Charleston, WV (1992-1994)

Freeland Furniture Company
Charleston, WV (1981-1987)

Interior Reflections
Logan, WV (1980-1981)

SUMMARY OF EXPERIENCE:

Deb Blakeman has 25 combined years of experience in the interior design field including residential, corporate facilities, banks, education and health care projects. She has knowledge and experience with application of ADA regulations, ergonomic standards, state building code and industrial standards as they apply to interior furnishings, space planning and finishes. As a professional designer, Deb Blakeman believes it is important to find the right balance between organizational and individual needs to increase productivity. Improving comforts through lighting and ergonomically sound furnishings will increase employer performance, and efficient spaces will organize work flow, decreasing communication barriers.

NOTABLE PROFESSIONAL EXPERIENCES:

Interior Designer

West Virginia State Police Academy

West Virginia University - Colson Hall

West Virginia University - State Fire Training Academy

WVU Institute of Technology - Maclin Hall

Marshall University / Robert C. Byrd Biotechnology Center (Interior Furnishing and Finishes)*

Marshall County Schools - Hilltop Elementary School (LEED Registered Project)

West Virginia State Building in Logan, WV (LEED Registered Project)

McKinley & Associates Charleston Area Office (2009 WV AIA Design Award winner)

Governor Wise, Governor Underwood, and Governor Caperton / Staff Offices (Furnishings, Finishes, and Space Planning)*

Treasurer John D. Perdue / Unclaimed Properties Division (Space Planning and Furnishings) / Treasurer's Office and Staff Office (Window Treatments, Furnishings, Finishes, and Space Planning)*

Sisters of St. Joseph - Convent / Assisted Living renovation project

Braxton County Senior Center

Braxton County High School - Fairmont State addition

Interior Designer / Sales

WV Graduate College (Furnishings)*

WV Credit Union (Space Planning, Furnishings and Finishes)*

Adjunct Professor

University of Charleston

**previous work experience with a firm
other than McKinley & Associates*

Dana E. Womack, Jr.

Construction Administrator

EDUCATION:

Marshall University
A.A.S. Occupational Development - 2005

PROFESSIONAL EMPLOYMENT:

McKinley & Associates
Project Coordinator
Charleston, WV (2009 to present)

RBS Construction Inc.
Project Manager
Nitro, WV (2007-2009)

Providence Construction
Superintendent
Teays Valley, WV (2007)

G&G Builders
Superintendent-in-Training (2005-2006)
Cement Finisher (2002-2005)
Scott Depot, WV

United Parcel Service
Preloader
South Charleston, WV (1999-2002)

United States Air Force
Security Forces (Sr. Airman)
Tinker Air Force Base, OK (1996-1999)

SUMMARY OF EXPERIENCE:

Mr. Womack brings various knowledge to the Project Coordinator role; skills which included a cross-trained background of project management / coordination, on-site supervisor, administering contracts from start up to project close out, as well as field work as a cement finisher (work included the Western Regional Jail), preloader, and law enforcement officer. With credentials spanning across all aspects of construction, Dana has a unique ability to work with owner and contractor alike and get the project completed on time and within budget.

NOTABLE PROFESSIONAL EXPERIENCES:

Construction Administrator for:

West Virginia State Building in Logan, WV (LEED)
West Virginia State Police Academy Renovations
WVSP Logan Detachment
Brookview Elementary - Boone County Schools
Madison Middle - Boone County Schools
Scott High - Boone County Schools
Summers County High - Summers County Schools

Project Manager

Manage projects from Preconstruction meeting to project close out. Develop construction schedules, manage on-site personnel, coordinate with subcontractors and work with suppliers to ensure materials are delivered to the jobsite on time. Work closely with the architects and engineers to complete the projects on time, within budget and to the owner's satisfaction.

Southern and Southwestern Regional Jails
Montrose Elementary Elevator Addition
900 Christopher Street Structural Renovations
Putnam PSD New Maintenance Garage
Mine Health Safety Academy Bathroom Renovations

Superintendent

Role during projects was on-site supervisor for all aspects of job completion. Managed job site personnel, maintained a safe work place environment, and led the team toward job completion with proper time management.

Security Forces (Sr. Airman) - Tinker Air Force Base, OK

Assistant Non Commission Officer In Charge of the Security Police Armory. Security Police Officer, duties included guarding priority A, B, and C aircraft and patrolling base as law enforcement officer.



William M. Ernstes, ASLA
Land Development Services Project Manager
Senior Landscape Architect

Land Development

Mr. Ernstes also provides professional services in the areas of land development, permitting, infrastructure development, utility relocation, storm water management design and best management practices, storm drain design, erosion and sedimentation control, and highway design. In this capacity, his responsibilities include project management, client project coordination, design production, quality control and quality assurance, proposal and contract development.

As Senior Landscape Architect, Mr. Ernstes provides clients with a variety of land development services including feasibility studies, residential and commercial land development applications, rezoning and special exception applications, grading and drainage analysis, and marketing exhibits.

Mr. Ernstes is actively involved within the West Virginia Chapter of the American Society of Landscape Architects and served as the 2008 President. Locally, he volunteers his time as a citizen planner for the Cheat Neck Planning District Advisory Committee (CNPDAC) which reports to the Monongalia County Planning Commission. Prior to joining Triad, Mr. Ernstes served as Branch Manager for an A/E ENR 50 firm in Morgantown, WV.

PROJECT EXPERIENCE SUMMARY

Planning Experience

Former Owens Illinois Glass Plant, Fairmont, WV

Project Manager responsible for preparation of a Conceptual Site Development Plan and color renderings for a +/- 26 acre industrial redevelopment site for the Marion Regional Development Commission. Scope included preparation of street typical sections, water, sewer and storm drainage layout, offsite improvements analysis, and 3D animated flyover utilizing Sketch Up software.

Forty Four Jones Place, Morgantown, WV

Responsible for preparation of planning documents for a 257 bed, 157 unit mixed use residential apartment project located in Sunnyside close to West Virginia University. Work involved preparation of Zoning Map Amendment outline plan, written statement and exhibits and representation at planning commission meetings, ward meetings, and work session meetings.

Industrial Development Experience

Petitto Mine Equipment Inc., Morgantown, WV

Project Designer responsible for preparation of Preliminary Site Plan and Development of Significant Impact Plan for thirteen acre industrial project located in Morgantown, WV. Work to include preparation of civil and surveying documents for a two building, 21,000 square foot expansion to the existing mine equipment manufacturing and servicing facility and presentation to the City of Morgantown Planning Commission for project approval. Providing client coordination and ongoing coordination related to Boundary Survey, Topographic Mapping, Consolidation Plat, and Geotechnical subsurface investigation.

WVU Maintenance Facility, Morgantown, WV

Project Designer responsible for preparation of the Site Plan and permitting for a 10,000 square foot Maintenance Building for the WVU Physical Plant located adjacent to Boreman Hall on WVU's main downtown campus. Construction documents included accommodations for demolition of the existing Maintenance Facility and steep topography constraints of the site through the use of site retaining walls. Plans have been reviewed and approved through Morgantown Utility Board.

Robert M. Hare, P.E.
Civil Engineering Manager, Northwestern Region

EDUCATION

BS, Civil Engineering

West Virginia University,
Morgantown, WV, 1979

REGISTRATIONS AND LICENSES

Professional Engineer

West Virginia (No. 12688);
Pennsylvania (No. 49565);
Maryland (No. 14652)
Virginia (No. 15661)

MSHA Certified

Surface Coal Mine Operations

DIRECT WORK EXPERIENCE AND PRIMARY RESPONSIBILITIES

Triad Engineering Inc.
Morgantown, WV

NW Civil Engineering Services Manager
March 2007 - Present

AECOM
Morgantown, WV

Project Engineer
1999 - 2007

L. Robert Kimball & Associates, Inc.
Corapolis, PA

Project Manager
1996-1999

D.H. Steffens Company
LaPlata, MD

Civil Department Manager
1987 - 1995

Real Estate Development Tech. Assoc.
Marlboro, MD

Project Engineer
1985 - 1987

Bengston, DeBell, Elkin & Titus
Centerville, VA

Project Engineer
1984 - 1985

Byrd, Tallamy, MacDonald & Lewis
Falls Church, VA

Project Engineer
1980 - 1984

CURRENT POSITION RESPONSIBILITIES

Mr. Hare is currently the Manager for the Civil Department, Morgantown Branch Office. In this capacity, Mr. Hare has extensive and diversified experience in project management, permitting, marketing, land development/infrastructure development, utility relocation, stormwater management design, storm drain design, erosion and sedimentation control, field survey coordination, right of way plan preparation, and highway design. He has over 30 years of diversified civil engineering experience.

PROJECT EXPERIENCE SUMMARY

West Virginia Department of Transportation, Elkins Bypass Project, Elkins, WV. Project Engineer/Task Manager for the preliminary and final design of the western section of the Elkins Bypass from a new interchange with the West Virginia Corridor H (US 250) at Aggregate, WV to Sullivan Junction, WV. The project involves a total of 8.2 miles of roadway, four-lane divided, mainline local roads and access roads. The project was broken into eight different construction contracts as well as Right of Way plans. The roadway structures on this project include three dual mainline bridges, two of which are in excess of 1600 ft., a 1700 ft. access road bridge and a 310 ft. three-span curved girder interchange ramp bridge. Responsibilities on this project included the design of the vertical and horizontal alignments for Contract 08, construction plan preparation for Contract 08, the design of all storm drainage systems, the preparation of erosion and sedimentation control plans, and the preparation of Right of Way plans. Total estimated construction cost for this project is approximately \$100 million.

West Virginia Department of Transportation, Mon/Fayette Expressway, Cheat Lake, WV. Project Engineer for the final design of the Mon/Fayette Expressway. The Mon/Fayette Expressway consisted of a 3.5-kilometers of limited access expressway, a new full-movement high-speed interchange with Interstate 68 and WV 43 and a full-movement local roads interchange between WV 43 and WV 857. This project included three dual main-line

structures on the expressway, one dual structure replacement I-68 along with third level fly-over ramp bridge and local road bridge over I-68. Specific design tasks included the design of the storm drainage system and plan preparation. Total construction cost is estimated at \$96 million.

West Virginia Department of Transportation, Ashford Truss Bridge Replacement, Ashford, WV. Project Engineer/Task Manager for the preparation of construction plans for a new bridge which carries CR 1 over the Big Coal River in the town of Ashford, Boone County, WV. The project consisted of a new 255 foot 3 span bridge structure and 1200 feet of new approach roadway. Responsibilities on this project included the design of the vertical and horizontal alignments, construction plan preparation, the design of all storm drainage systems, the preparation of erosion and sedimentation control plans, and the preparation of Right of Way plans. Total estimated construction cost for this project is approximately \$2 million.

West Virginia Department of Transportation, Sugar Run Bridge Replacement, Littleton, WV. Project Engineer/Task Manager for the preparation of construction plans for a new bridge which carries CR 9 over the West Virginia Fork of Fish Creek. The project consisted of a new 105 foot single span bridge structure and 530 feet of new approach roadway. Responsibilities on this project included the design of the vertical and horizontal alignments, construction plan preparation, the design of all storm drainage systems, the preparation of erosion and sedimentation control plans, and the preparation of Right of Way plans. Total estimated construction cost for this project is approximately \$1 million.

Federal Correctional Institute, McDowell County, WV. Project Engineer for the site civil portion of a Design/Build project to construct a new Federal Prison Complex located near the town of Welch for the Federal Bureau of Prisons. Responsibilities included the design of all storm drainage systems, stormwater management facilities, and erosion and sediment pollution controls during construction.

Veterans Administration Health Care Facility, Parking Garage, Pittsburgh, PA. Project Engineer for the site civil engineering and plan preparation to construct a new parking garage structure on the VA complex. Responsibilities included all on-site infrastructure improvements, utility relocations, site layout, grading and site development details.

Powell Road Improvements, Cranberry Township Department of Public Works, Cranberry, PA. Project Manager for a 4 mile roadway improvement/realignment project. Duties included utility relocation coordination, intersection improvements and roadway drainage.

St. Charles Town Centre, Waldorf, MD. Project Engineer for the civil site engineering and plan preparation for a regional shopping mall. Responsibilities included all site infrastructure design and off site roadway improvements to Maryland State Route 5.

The Exchange at Granville, Monongalia County, WV. Project Manager for the civil engineering and plan preparation for a 336 unit student housing development. Responsibilities included topographic survey coordination, infrastructure design to include road plans and profiles, storm drainage, water and sewer service, grading and erosion and sediment control plans.

WVU Basketball Practice Facility, Morgantown, WV. Project Manager for the civil engineering and plan preparation for a new basketball practice facility. Responsibilities included topographic survey coordination, infrastructure design to include access road and parking lot plans, storm drainage, stormwater management, existing utility coordination and relocations, water and sewer service, grading and erosion and sediment control plans.

WVU Intermodal Facility, Morgantown, WV. Project Manager responsible for preparation of Site Development Plans and permitting required for the WVU Intermodal Facility located on the medical campus of West Virginia University. The scope included the preparation of plans to address layout, grading, utility, storm water management, landscape and erosion and sediment control for a new +/-500 parking space garage, public transportation center, linkage to WVU Health Sciences Center and PRT, parking, biking and pedestrian site needs.

First United Bank, Morgantown, WV. Project Manager responsible for the preparation of Site Development Plans for the Suncrest Towne Centre branch bank located in Morgantown, WV. Scope included preparation of preliminary and final site layout, grading, utility, storm drain, stormwater management, landscape and erosion and sediment control plans. Obtained required state and local permits for construction and currently providing ongoing coordination with the construction contractor and client for all surveying and construction inspection tasks.

Ronald A. Talkington, P.S.
Surveying Manager, Northwestern Region

EDUCATION

One Year Survey Course

Monongalia County Vo-Tech Center
Morgantown, WV 1980

REGISTRATIONS AND LICENSES

Professional Surveyor
MSHA Annual Certification
Railroad Roadway Workers Annual Certification

West Virginia (No. 876)

DIRECT WORK EXPERIENCE AND PRIMARY RESPONSIBILITIES

Triad Engineering, Inc.
Morgantown, WV

NW Surveying Manager
2011 - Present

Triad Engineering, Inc.
Morgantown, WV

Surveyor Supervisor
2006 - 2011

Triad Engineering, Inc.
Morgantown, WV

Senior Surveyor
1989 - 2006

McCoy Surveying
Monongah, WV

Crew Chief
1981-1989

CURRENT POSITION RESPONSIBILITIES

Mr. Talkington is the Surveying Practice Leader for Triad's Northwestern regional operations. He has supervised and completed numerous projects involving ALTA Land Title surveys, as well as, boundary, subdivision, easement, route, topographic, conventional/GPS horizontal and vertical control network and construction surveys. Mr. Talkington performs record research, plotting of deeds, property evidence reconnaissance, analysis of deed verse field boundary evidence and the preparation of plats and descriptions as typically required in the completion of projects involving property line retracement and/or subdivision. Additionally, Mr. Talkington prepares stakeout data from engineering/architectural plans sets and calculates pay item quantities as related to infrastructure and/or commercial/residential development construction projects.

PROJECT EXPERIENCE SUMMARY

West Virginia Department of Transportation - Mon Fayette Expressway I-68 Interchange, AECOM,
Near Morgantown, Monongalia County West Virginia

As Senior Surveyor, performed the tasks required to develop the overall property mosaic for the entire project area. The project involved approximately 84 properties for which record research, property reconnaissance, plotting of deeds and acquired field data, evaluation of deed verse recovered property evidence was required. The preparation of approximately 164 legal descriptions for new right of way areas was required to facilitate right of way acquisition.

West Virginia Department of Transportation - Elkins By-Pass, AECOM, Elkins, Randolph County WV

As Senior Surveyor, performed the tasks required to develop the overall property mosaic for the entire project area. The project involved approximately 56 properties for which record research, property reconnaissance, plotting of deeds and acquired field data, evaluation of deed verse recovered property evidence was required. The preparation of approximately 112 legal descriptions for new right of way areas was required to facilitate right of way acquisition.

Ronald A. Talkington, P.S.
Surveying Manager, Northwestern Region

Berkeley County WV Mapping, L. Robert Kimball & Associates, Berkeley County West Virginia

As a Senior Surveyor, performed network analysis and post processing of terrestrial and GPS acquired field data for the development of the final coordinate positional values of over 30 ground control targets established to control the aerial flight and mapping compilation for the entire county.

TrAILCo, 502 Junction, Kenny Construction Company – Mount Morris, Pennsylvania

As Survey Supervisor, coordinated daily field crew activities, performed property line reconnaissance, record research, plotting of deeds and survey data, preparation of plats and descriptions in the completion of an ALTA survey encompassing five parcels totally approximately 425 acres associated with a new substation facility required for the TrAILCo (Trans-Allegheny Interstate Line) project. Additional property surveys have been completed at various locations along the transmission line's alignment to facilitate land acquisition.

Clipper Windpower Development Company, Criterion 70 Megawatt Windpower Project – Garrett County, Maryland

As Survey Supervisor, coordinated the daily work assignments with field and office personnel in the preparation of an ALTA survey for this project. The project encompasses over 40 land owners along an eight (8) mile stretch of ridge line along Backbone Mountain. Terrestrial as well as GPS surveys techniques were employed in the development of this survey. Preparation of plats and descriptions for various easements was required. Close coordination with representatives of the developer, title company and buyers was required to track the numerous proforma listings.

City of Morgantown, High Street Streetscape Project Phase 3, AECOM – Morgantown West Virginia

As Senior Surveyor, researched and prepared the property mosaic for the project mapping.

CFW Wireless - Cell Phone Towers, Throughout West Virginia

As Senior Surveyor, coordinated with the owner, contractors and field / office staff to develop the necessary property/lease area surveys/plats required for approximately 150 cell tower sites. Record research, property reconnaissance, plotting of deeds and acquired field data, evaluation of deed verse recovered property evidence was required.

Institute for Scientific Research - ISR Building, Fairmont, WV

As Senior Surveyor, coordinated the construction layout of this 263,000 sf, \$74 million dollar project. Work involved the verification of existing site survey controls, establishment of permanent survey control monuments, construction layout, check surveys, preparation of as-built drawings and verification of quantities of pay items.

Hilton Garden Inn, Emerald Coast Hospitality, LLC – Monongalia County, West Virginia

As Survey Supervisor, coordinated the daily work assignments with field and office personnel in the preparation of an ALTA survey for this project. The project was for a new 10.4 million hotel located at the Suncrest Towne Centre. Preparation of plats and descriptions for various easements was required. Close coordination with representatives of the developer, title company and buyers was required.

West Virginia Department of Transportation, Division of Highways, Charleston, WV

Corridor H, U.S. 48 – Scherr, WV

Project Manager and lead roadway designer for 2.25 miles of 4 lane divided highway in Grant County, WV. This project included managing structural engineers, geotechnical engineers, surveyors, other roadway engineers, and designers. Worked closely with West Virginia Department of Transportation personnel as well as local residents during the highways design through the environmentally sensitive Greenland Gap area.

U.S. 460 – I77 Interchange, Princeton, WV

Project Manager and lead roadway designer for replacement of existing bridge over I-77 in Mercer County, WV. This project included managing structural engineers, geotechnical engineers, surveyors, other roadway engineers, and designers. Worked closely with West Virginia Department of Transportation personnel during the Maintenance of Traffic planning stages to maintain traffic flow during construction at this very busy interchange.

Tablers Station Connector, Martinsburg, WV

Project Manager and lead roadway designer for 1.57 miles of 4 lane highway including an interstate overpass bridge in Berkeley County, WV. This project included managing structural engineers, geotechnical engineers, surveyors, other roadway engineers, and designers. Extra care was involved in this project due to numerous manufacturers in the area as well as historic properties.

Marshall Foundation – Huntington, WV

As Project Manager and Lead Designer, Mr. McCoy prepared construction documents for the construction of a 33,000 square foot alumni center in Huntington, WV. This project includes grading, drainage, roadway expansion, parking lot design, as well as many other aspects.

City of Charleston, Charleston, WV

- ***Kanawha Boulevard Sidewalk Renovation Project*** - As Project Manager and Lead Designer, provided construction plans and documents for this federally funded multimillion dollar project including several miles of sidewalk and lighting renovations. This project involved the management of several different contractors as well as working with numerous funding agencies.
- ***Streetscape Renovations*** - As Project Manager and Lead Designer, designed several renovations to existing streetscape areas within downtown Charleston, WV. Areas involved the following areas:
 - Lee Street Triangle
 - Hale Street/Quarrier Street Intersection
 - Dickenson Street/Lee Street Intersection (1st in state to utilize Streetprint® asphalt paving process)

Habitat for Humanity of Kanawha and Putnam Counties - South Charleston, WV

As Project Manager, Lead Designer, and Construction Administrator, designed and specified for the construction of Jubilee Heights, a multiple phase subdivision in the City of South Charleston, WV.

Mountaineer Challenge Academy WV Army National Guard

Kingwood, West Virginia

Owner
WV Army National Guard

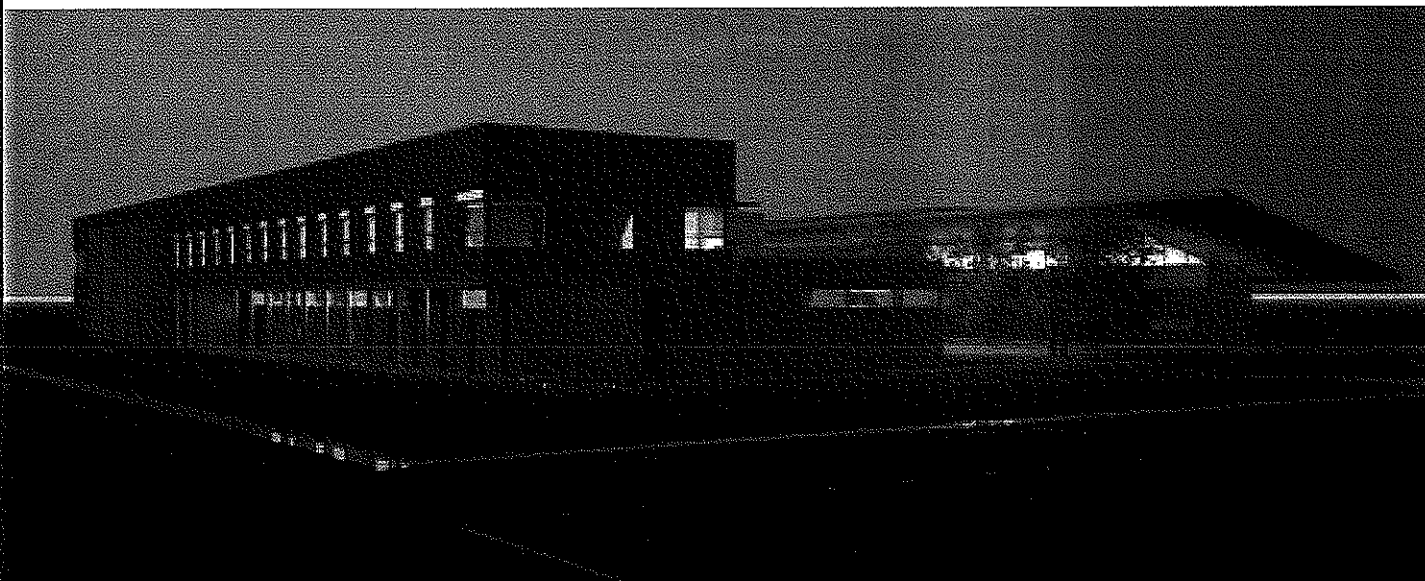
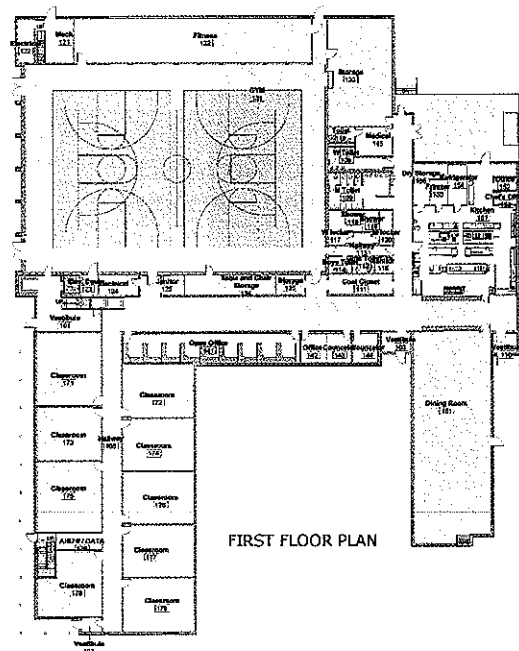
Size
54,800 SF approx.

Construction Cost
\$12.7 million

Project Architect
Assemblage Architects

Project Engineers
McKinley & Associates

Currently under construction is the Mountaineer Challenge Academy, located at Camp Dawson in Kingwood, WV. Our involvement in this project includes MEP engineering and contract administration. The building program includes staff offices, counselors offices, support staff areas and a medical assistance space to accommodate the needs of the student residents.



The residents require classrooms, an exercise area and a full service kitchen with dining facility; these spaces will house 160 young adults living at Camp Dawson as part of the Challenge Academy. The gymnasium will accommodate physical activity, weight training and serves as the central hub of the complex. Drill exercises and formations as well as graduation ceremonies will be held here.

Multi-Purpose Building at Camp Dawson WV Army National Guard

Kingwood, West Virginia

Owner
WV Army National Guard

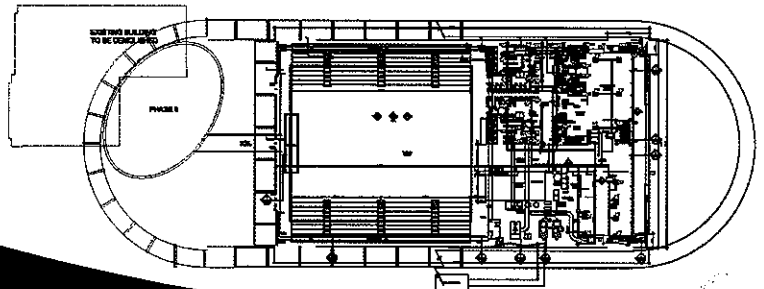
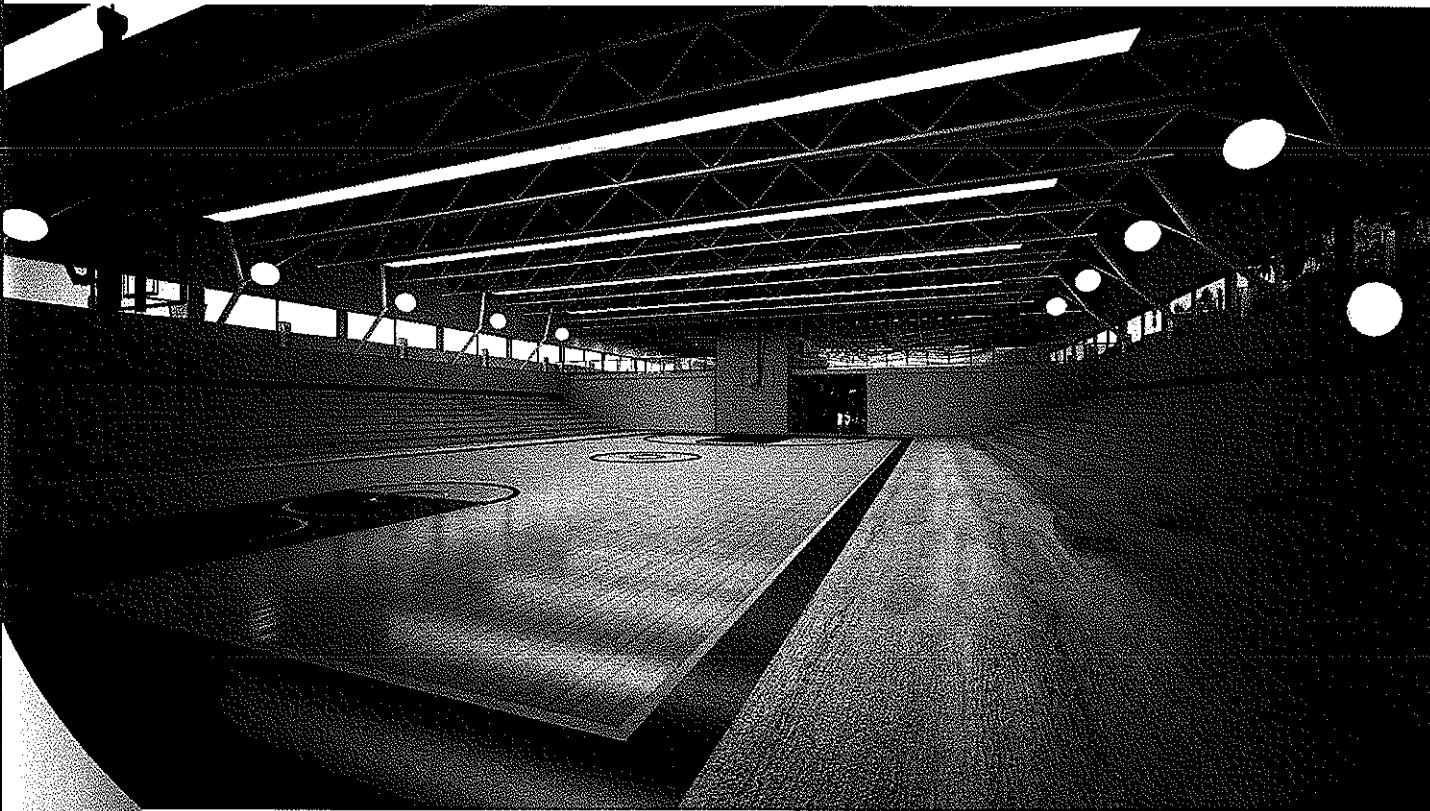
Size
55,000 SF approx.

Project Architect
Assemblage Architects

Project Engineers
McKinley & Associates

The mission of the Multi-Purpose Building at Camp Dawson is a permanent multi-use masonry steel-framed structure with supporting facilities for military units of the West Virginia Army National Guard. The facility is located in Kingwood, Preston County, WV. The building's design was completed in 2009.

The facility houses offices, a conference room, a locker room, shower facilities, a physical fitness area, and a large open space (gymnasium). The facility and grounds include parking, attached and detached storage, landscaping, security lighting and fencing, and a unique entry. This project was designed with energy recovery systems.



Cabela's

Eastern Distribution Center

Triadelphia, West Virginia

Owner
Cabela's

Size
1.2 million SF (includes phases I & II)

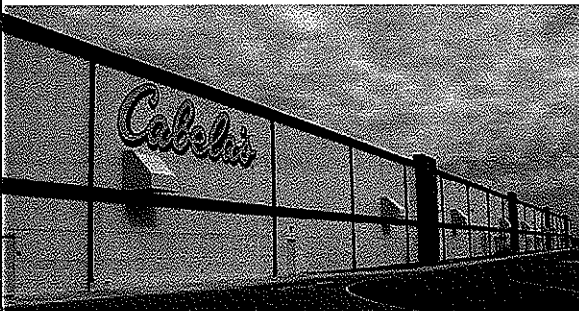
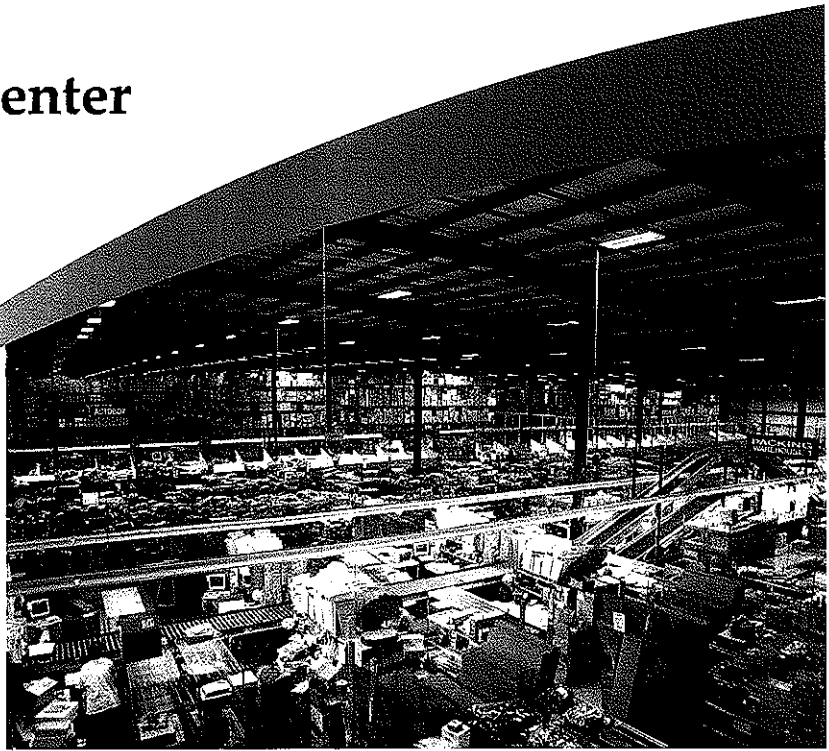
Construction Cost
\$40 million

Project Architects-Engineers
McKinley & Associates

Project Architect
Gregg Dorfner, AIA

Contractor
Norwood Construction

Architectural and Engineering design on a new commercial warehouse for **Cabela's Eastern Distribution Center** in Triadelphia, West Virginia, that was completed in two fast-tracked phases. The building measures **1.2 million square feet** (600,000 SF for each of Phase I and Phase II), and is one of the largest buildings in the State of West Virginia. Included in the structure are the following: a **14,480 SF maintenance building**, a **32,670 SF administrative office building**, a **12,000 SF employee lunch room**, hundred of trailer parking spaces, 750 employee parking spaces, and 90 loading docks.



Parkview Maintenance Garage Marshall County Schools

Moundsville, West Virginia

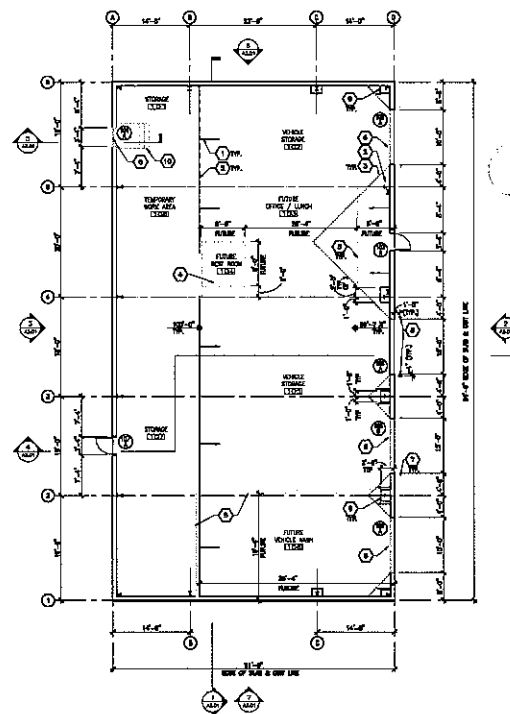
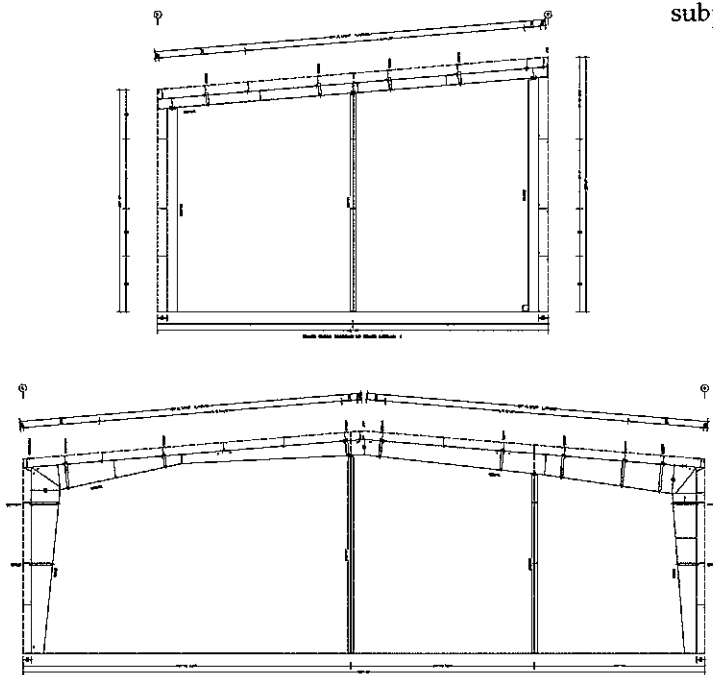
Owner
Marshall County Schools

Size
4,800 SF approx.

Project Architects-Engineers
McKinley & Associates

Contractor
H.W. Trushel Construction

The Maintenance Building at the Marshall County School's Parkview Elementary School is a pre-engineered metal building with steel siding & roofing. It included multiple overhead doors and vehicle storage, cosmetic painting of interior walls and door frames, construction of selected ramp & lift systems to achieve the minimum level of accessibility necessary for functional conversion of the existing school building to an Alternative Education Center, replacement of existing HVAC systems to add cooling to the building, and upgraded electrical service with 4 subpanels to provide power for the new HVAC system.



- 2 FLOOR PLAN
- FLOOR, CEILING, LEVEL, ACCESS
- 1 DIMENSION OF SLOPE IN CONCRETE FLOOR, SUBGRADE AT 1" PER FOOT.
 - 2 FINISH LINE OF SLOPE FINISH BY CONCRETE FLOOR.
 - 3 FINISH LINE INTERIOR SLOPE IN CONCRETE FLOOR.
 - 4 LOCATED FOR INFORMATION PLUMBING SYMBOLS ARE SYMBOLS OF TYPICAL SLOPE PLUMBING SYMBOLS BY CODES - ALL - CONCRETE SLOPE SYMBOLS.
 - 5 SYMBOLS DEFINED FOR THE PURPOSE OF FUTURE CONSTRUCTION-NO FINISHING IS THE CONTRACT.
 - 6 SYMBOLS SHOWING THE LEVEL, WALLS, AND STRUCTURE, FINISH SYMBOLS FOR FINISH SYMBOLS, SEE PLUMBING & SLOPE SYMBOLS.
 - 7 BELONGS WALL, SEE DRAWINGS.
 - 8 BELONGS THE TYPICAL BELONGS SYMBOLS OF SLOPE SYMBOLS.
 - 9 LEVEL SYMBOLS OF CONCRETE FLOOR AT FLOOR SYMBOLS FINISH & CONCRETE.
 - 10 FINISH SYMBOLS - ALL.

State Fire Training Academy West Virginia University

Jackson's Mill, West Virginia

Owner
West Virginia University

Size
25,752 square feet including
the 8,300 sq. ft of the Arena

Construction Cost
\$4.5 mil.

Project Architects-Engineers
McKinley & Associates

Project Architect
Christina Schessler, AIA

The West Virginia State Fire Training Academy is located near the Jackson's Mill 4-H Campus in Lewis County, WV. Because of the proximity to this state historic site, the design directive given by the Owner was to blend into the rural community. The exterior brings to mind a barn set into the sloping terrain in an agricultural setting. The Users we have spoken to enjoy teaching in our facility. Contextually, it "fits" into the Jackson's Mill Campus and local agricultural community.

There are two major components to the building; the first of these is the Classroom Wing. It contains a distance learning facility, a conference room, plus two other connected instructional spaces that allow for a range of class sizes. The administrative area is private but easily accessible from all classrooms.

The second component, the 8,300 square foot Arena, is an all-weather interior training facility. The scale of this structure, having a clear interior height greater than 30', allows the full extension of authentic fire training apparatus for various types of hands-on programs. A custom metal building skeleton with a board & batten metal skin was designed. The siding is representative of rural, vertical barn siding and serves as an integrating element throughout the large complex.



Steel Valley Transit Maintenance Complex

Steubenville, Ohio

Owner

Steel Valley Regional Transit Authority

Size

15,614 SF

Construction Cost

\$275,000

Project Architects-Engineers

McKinley & Associates

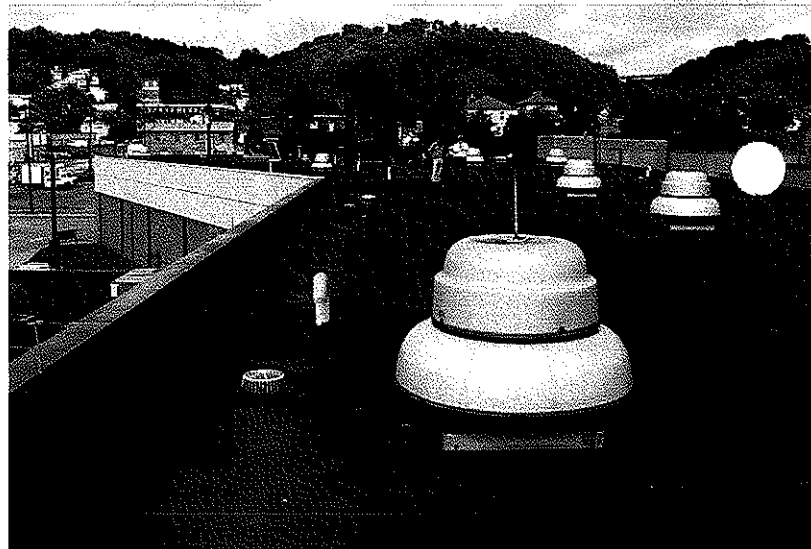
Project Architect

Christina Schessler, AIA

Contractor

Alex Roofing & Construction Co.

This project includes architectural and engineering design services for the roof repairs and replacement for the administrative and maintenance complex in Steubenville, Ohio. This new roof project is an American Recovery & Reinvestment Act of 2009 (ARRA) grant project. This includes the demo of the existing EPDM roofing; new EPDM roofing, penetrations, scuppers, and flashing; the demo of existing coping and installation of new metal coping; salvaging and reinstalling the lightning protection system; replacing one roof hatch; repairs to the existing EIFS system; new scuppers through the existing parapet; and finally, the installation of new roof expansion joints.



For the roof system, the rubber membrane and insulation needs to be replaced. During the installation, we will ensure that the slope of the roof and roof drainage system meet current Ohio Building Codes. The HVAC units will be lifted off their curbs to help with the flashing; one of the HVAC units will be replaced. The roof drainage system will require an upgrade to provide an emergency drainage system to ensure water leaves the roof surface if the primary roof drains become plugged. For this roof, the most economical way to add an emergency system is to add scuppers through the parapet wall to allow any ponding of water to exit the roof structure.



McKINLEY & ASSOCIATES
ARCHITECTS • ENGINEERS • INTERIOR DESIGN

Panhandle Cleaning and Restoration warehouse and offices

Triadelphia, West Virginia

Owner

Panhandle Cleaning & Restoration

Size

32,000 square feet including
the 6,400 SF 2-story mezzanine

Construction Cost

\$3.5 mil.

Project Architects-Engineers

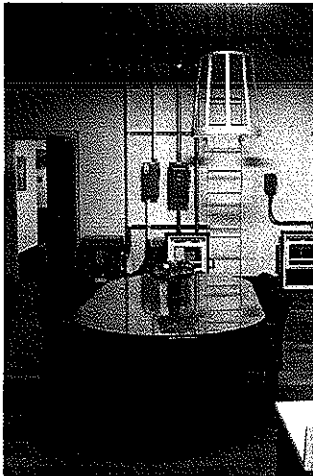
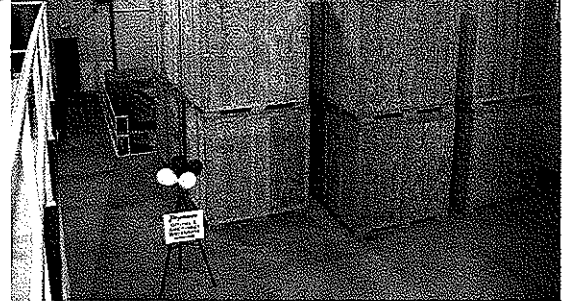
McKinley & Associates

Project Architect

Christina Schessler, AIA, LEED AP

Panhandle Cleaning & Restoration invested \$3.5 million in a new prefabricated metal building. The exterior measures 130'x200', which includes a 6,400 SF 2-story mezzanine within the structure, providing 32,000 total warehouse square feet. The exterior walls are finished with masonry infill and metal siding. Interior space varies between 20' - 30' clear of the metal structure. The free-standing masonry area with a conventionally framed platform above it provides an additional storage area enabling the Owner to take advantage of the 2 ½ story clear height along one end of the warehouse. An additional prefabricated 8,600 SF, 2-story office building is attached to the warehouse along the high side of the warehouse.

Panhandle provides disaster clean-up services and therefore required some special plumbing and mechanical systems: a separate de-ionizing water system, fully exhausted ozone decontamination rooms and electronic equipment drying areas were engineered into the warehouse space.



FRONT ELEVATION

Wheeling Island Fire Station

Wheeling, West Virginia

Owner

City of Wheeling

Size

8,000 SF approx.

Construction Cost

\$1.3 mil.

Project Architects-Engineers

McKinley & Associates

Project Architect

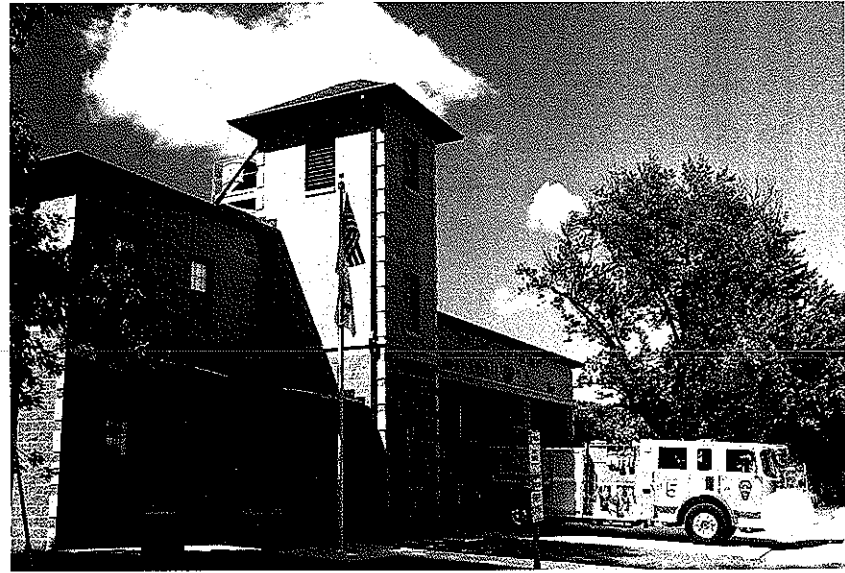
Christina Schessler, AIA, LEED AP

Contractor

Walters Construction



The Wheeling Island Fire Station proved to be a very exciting and interesting project for McKinley & Associates. The station was built for the Wheeling Fire Department's Engine Company No. 5, who not only work here, but also live in this building during their shifts. Included are a garage, living quarters, kitchen and gym.



Bus Maintenance Facility Tyler County Schools

Middlebourne, West Virginia

Owner
Tyler County Schools

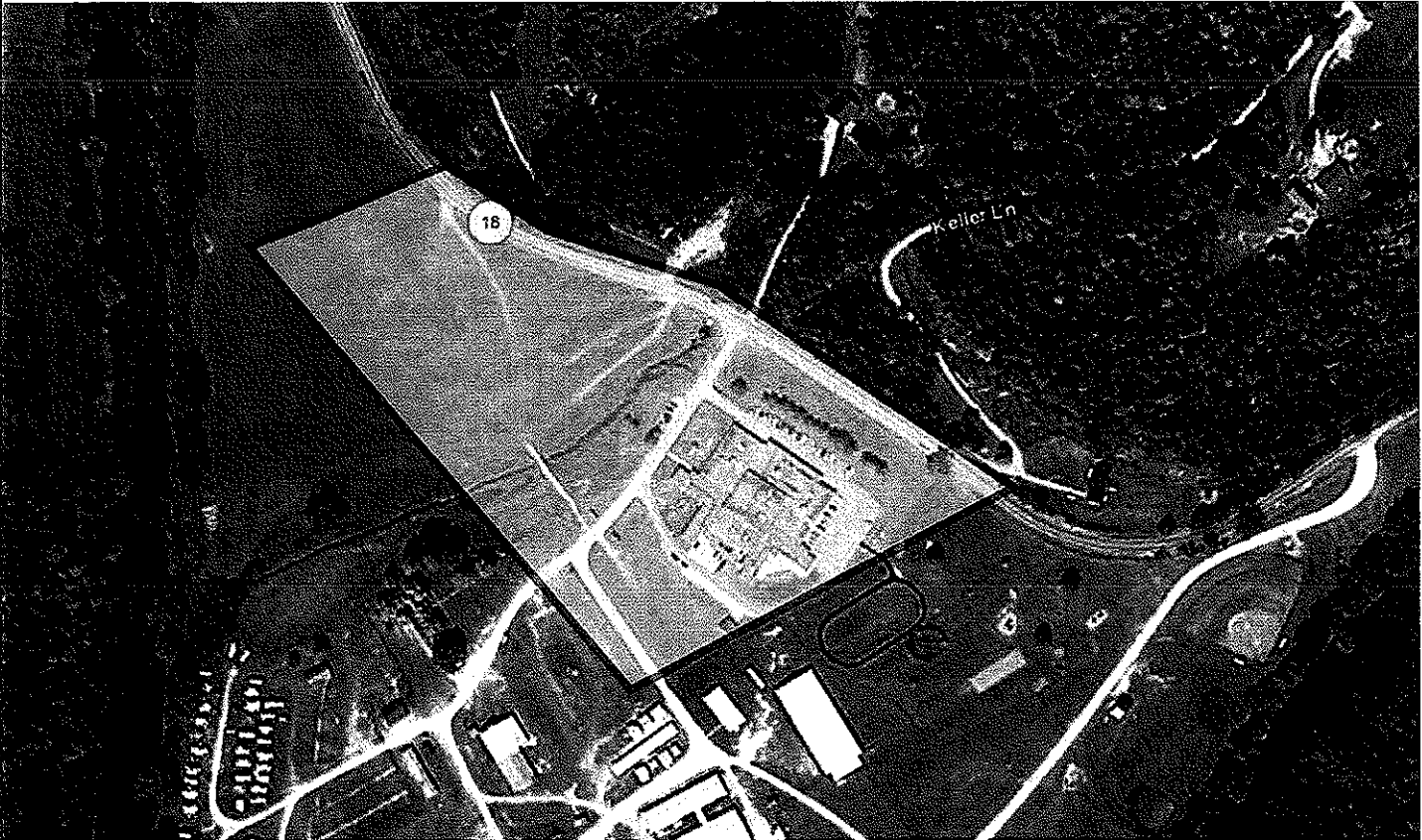
Size
13,260 SF approx.

Project Architects-Engineers
McKinley & Associates

Project Manager
Patrick J. Rymer, Assoc. AIA

Currently in design is a Bus Maintenance Facility for Tyler County Schools. The 5,050 SF of maintenance spaces includes an area for parts/storage/dispensing, fluids room, tire storage, battery storage, locker room, an additional storage room, and utility rooms.

In addition, there is 1 interior wash bay and 4 maintenance bays (at 1,440 SF each) for an additional 7,200 SF of maintenance space. This area includes a paint bay, flammable storage/mixing, body shop bay, tire repair, and welding/machine room.



The 1,750 SF of administrative spaces includes the Transportation Director's office which includes dispatch, the maintenance office, a work room, conference room, waiting area with reception, and a break room. Also included is a fuel dispensing station, 2 lifts, security fencing, a bus parking lot, a regular parking lot, access control, and sprinklers.

Charleston Processing & Distribution Center United States Postal Service

Charleston, West Virginia

Owner
United States Postal Service

Size
242,000 SF approx.

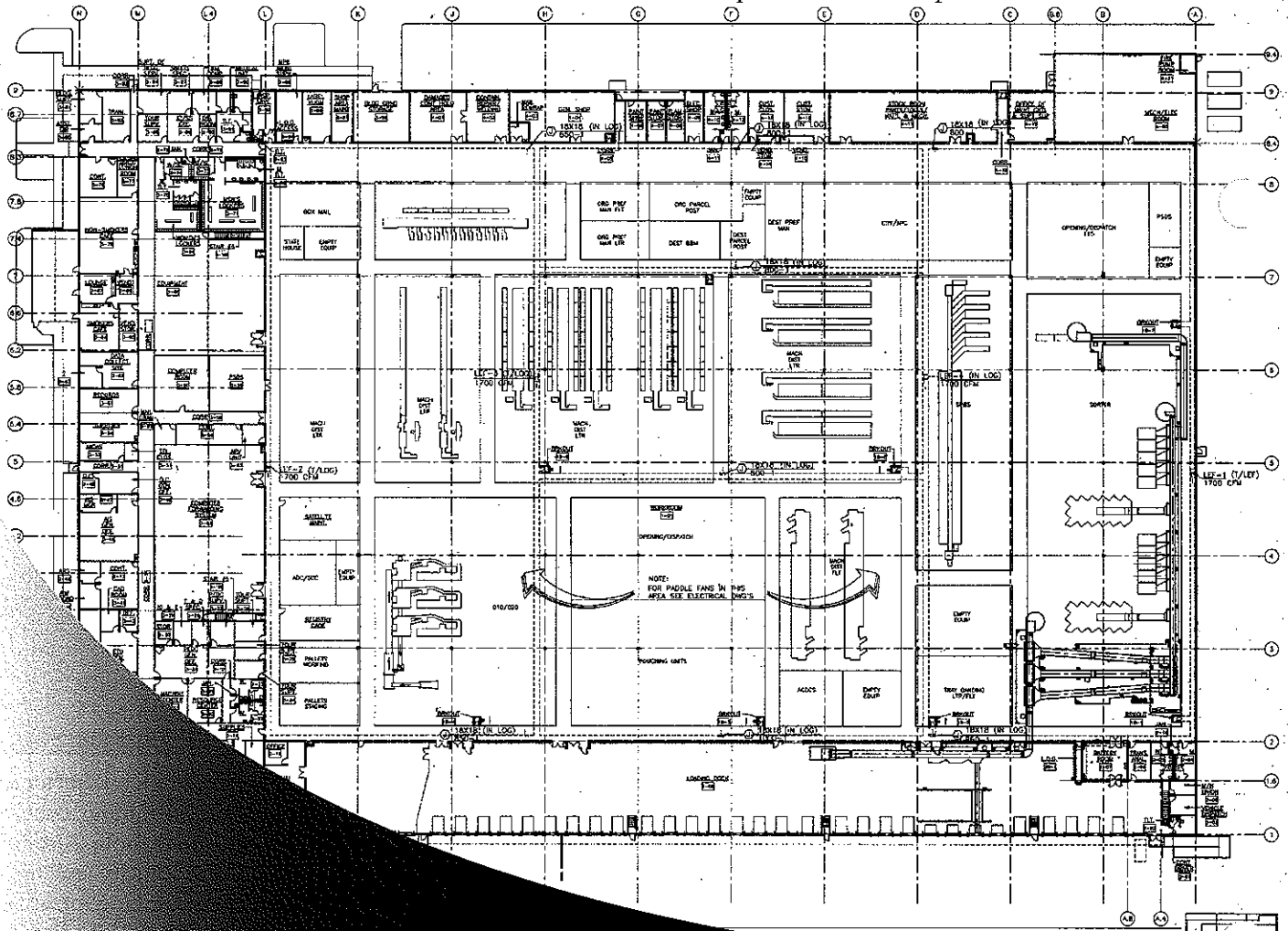
Construction Cost
\$375,000

Project Architects-Engineers
McKinley & Associates

The main goal of this \$375,000 HVAC renovation project involved the removal of all the Thermofusers and the ceiling fan coil units, and the installation of 8 Fan Powered VAV Boxes and 3 Single Duct VAV Boxes with Hot Water Reheat Coils. The existing DDC Control System was extended to control these new items.

In addition, the 3 Existing Rooftop Heat Pumps Units were in need of repair, as two compressors had failed; therefore, they were replaced with Rooftop Units with electric heat. These new RTUs have economizers to allow the unit to provide free cooling whenever the outside air temperature is below 55° F, by modulating the amount of outside air delivered through the unit.

Finally, the UPS Room did not have any mechanical cooling, and so two new 5-Ton Sanyo Mini Split air conditioning units were installed. The controls for these units include a sequencer to assure equal runtime on the units.



ABOUT US

Triad Engineering, Inc. (Triad) is an employee-owned, multi-discipline engineering and earth-science firm specializing in civil engineering, geotechnical engineering, landscape architecture, drilling, environmental services, mining services, construction monitoring and testing and surveying. Triad was founded in 1975 by three civil engineers and has grown to a staff of over 200 employee-owners located in multiple offices across the mid-Atlantic region. By providing a wide array of services and maintaining a staff of competent, well-trained professionals, Triad has developed long-term relationships with many satisfied clients.

OUR SERVICES

- ◆ **Engineering:** Civil Site Design and Planning; Potable Water System Design; Wastewater System Design; Geotechnical Engineering; Landslide Investigation and Remediation; Dams & Impoundments; Mining-Related Facilities; Stormwater Design & Permitting
- ◆ **Environmental:** Groundwater and Soil Assessment and Remediation Design; Phase I/II ESAs; Brownfield Site Assessment; Asbestos, Mold and Lead-Based Paint Inspection; Wetland and Forest Management Services; Regulatory Compliance Assistance & Permitting; Certified Industrial Hygienist
- ◆ **Drilling & Sampling:** Geotechnical and Environmental Drilling & Sampling; Monitoring Well & Piezometer Installation; Coal Reserve Drilling
- ◆ **Construction Monitoring & Testing:** Quality Control Monitoring & Testing of Soil, Concrete, Asphalt and Aggregate; Floor Flatness; Structural Steel; Paint and Fireproofing
- ◆ **Surveying & Mapping:** Topographic & Planimetric Mapping; Construction Layout; Subdivision Platting; ALTA / ACSM Surveys; Property Boundary Surveys
- ◆ **Landscape Architecture:** Master Plans & Land-Use Studies; Streetscape Improvements; Parks and Recreation; Disturbed Land Restoration; Trail Studies

MORE THAN 35 YEARS
OF EXPERIENCE

PROFESSIONAL STAFF
OF MORE THAN 200
EMPLOYEES

OFFICE LOCATIONS IN
THE MID-ATLANTIC
REGION

WIDE RANGE OF
IN-HOUSE CAPABILITIES



PENNSYLVANIA

125 Hartman Road
Suite C
Greensburg, PA 15601
(724) 832-9870

MARYLAND

1075-D Sherman Avenue
Hagerstown, MD 21740
(301) 797-6400

VIRGINIA

200 Aviation Drive
Winchester, VA 22602
(540) 667-9300

21641 Beaumeade Circle
Suite 300
Ashburn, VA 20147
(703) 729-3456

WEST VIRGINIA

219 Hartman Run Road
Morgantown, WV 26505
(304) 296-2562

4980 Teays Valley Road
Scott Depot, WV 25560
(304) 755-0721

OHIO

1005 East State Street
Suite 2
Athens, Ohio 45701
(740) 249-4304

◆ GEOTECHNICAL ENGINEERING SERVICES

Triad was originally formed in 1975 as a geotechnical engineering firm, and our expertise in this discipline is superior. Many of Triad's engineers have advanced degrees in geotechnical engineering. The combined education and professional experience of our staff provides our clients with cost-effective and practical solutions for the most difficult soil, rock and groundwater problems. Our clients include industrial and mining companies, governmental agencies, contractors, architects, engineers, developers, owners and commercial organizations. Geotechnical projects have included investigations for hospitals, churches, hotels, schools, shopping centers, communication towers, wind turbines, water and petroleum product storage tanks, coal and mineral processing facilities, landslides, bridges and highways, parks and recreation facilities, river docks, and impoundments of all types. Let Triad's experience and capabilities in geotechnical engineering help bring your project to a successful conclusion.

Our Geotechnical Engineering Services Include:

- ▾ Shallow and Deep Foundation Evaluations and Recommendations
- ▾ Landslide/Slope Stability Analysis and Remedial Design
- ▾ Earth and Earth/Rock Dam and Embankment Design
- ▾ Retaining Wall Evaluation and Design
- ▾ Mine Subsidence Investigations
- ▾ Flexible and Rigid Pavement Evaluations and Design
- ▾ Groundwater and Seepage Analysis and Design
- ▾ Shored and/or Braced Excavation Evaluations
- ▾ Foundation Underpinning Recommendations
- ▾ Forensic Investigations and Expert Witness Testimony
- ▾ Hydrogeologic Studies
- ▾ Fracture Trace Analysis
- ▾ Karst Investigations
- ▾ Geophysical Investigations
 - 2-Dimensional Electrical Resistivity Imaging
 - Ground Penetrating Radar (GPR) Testing
- ▾ Laterally Loaded Pile Analysis
- ▾ Pile Driveability Studies
- ▾ Seismic Site Classifications



◆ TRIAD Listens, Designs & Delivers

❖ DRILLING AND SAMPLING SERVICES

Triad owns and operates numerous drilling rigs at various offices. Our drilling fleet includes truck-mounted, track-mounted, skid-mounted and ATV-mounted rigs. Drill rigs are available at all office locations as needed. The track-, ATV- and skid-mounted units can access the most difficult types of terrain. Our rigs provide support primarily for in-house geotechnical engineering projects. In addition, Triad routinely provides subcontract drilling services for other consultants, private industry, and state, federal or municipal governments. Support equipment includes water trucks, tanks, piping, pumps and portable grout mixer/pumps. Triad can provide drill crews who are OSHA- and MSHA-trained when required for the project.

Our Drilling Services Include:

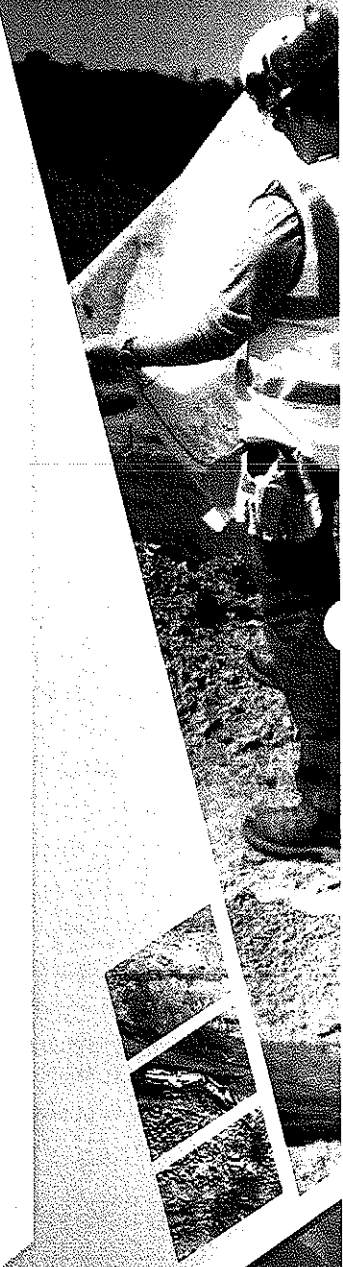
- ▼ Soil Test Borings with Standard Penetration Testing and Sampling
- ▼ Rock Coring and Sampling (NQ and PQ Size Cores)
- ▼ Auger Borings
- ▼ Undisturbed Shelby Tube Sampling
- ▼ Roller Bit Borings
- ▼ Down Hole Hammer (DHH) Drilling
- ▼ Bridge Pier (Barge-Based) Borings
- ▼ Coal Exploration Borings
- ▼ Coal Refuse Drilling and Sampling
- ▼ Hazardous Waste Sampling
- ▼ Sludge Pond Sampling
- ▼ Sub-Bottom Core Holes
- ▼ Borehole Packer Permeability Testing
- ▼ Piezometer Installation
- ▼ Slope Inclinator Casing Installation
- ▼ Monitoring Well Installation and Development
- ▼ Borehole Grouting

⚙️ MINING INDUSTRY SERVICES

Triad provides many specialty engineering services to the mining industry. Our typical clients include coal companies, contract miners, land companies and design-build construction firms. Our professional staff has degrees in Mining, Civil and Geotechnical Engineering, Geology, Biology, Chemistry, Environmental Technology and Surveying. Triad has developed and maintained excellent long-standing working relationships with many regulatory agencies, which can be invaluable in moving projects forward. The diverse education and experience of our professionals, combined with our in-house drilling, laboratory testing and construction monitoring capabilities, provides our clients with a full-service engineering firm for all of their needs.

Our Mining Industry Services Include:

- ▼ Geotechnical Investigations
- ▼ Refuse Disposal Facility Design
- ▼ Impoundment Design
- ▼ Geologic and Hydrologic Evaluations
- ▼ Due Diligence Environmental Site Assessments
- ▼ Environmental Permitting
- ▼ Air Quality Permits
- ▼ SARA Emissions Inventory
- ▼ Handling and Loadout Facility Permits
- ▼ Drainage Design and Certifications
- ▼ Surface Mine Surveying and Mapping
- ▼ Construction Layout
- ▼ As-Built Certification
- ▼ Production/Yardage Reports
- ▼ Tonnage Reports
- ▼ Construction QA/QC Monitoring and Materials Testing
- ▼ Drilling and Monitoring Well Installation
- ▼ Reclamation Liability Audits
- ▼ Abandoned Mine Land Reclamation Design
- ▼ Mine-Related Subsidence Investigations



◆ TRIAD Listens, Designs & Delivers

⚡ CIVIL ENGINEERING DESIGN

Triad has a team of professional personnel which provides civil engineering design services in a variety of markets including land planning, site development of residential subdivisions, commercial development, education and healthcare facilities, water/wastewater, landfills, reservoirs, and many other facets of land development. We can combine many other in-house services, from surveying to construction inspection and testing, to provide a product from start to finish. Our goal is to design a cost-effective project that incorporates good engineering science, meets local, state and federal regulations and codes, and is an appealing design that meets or exceeds client expectations.

Our Civil Engineering Design Services Include:

▾ Site Grading and Development Plans

- Minor lot subdivisions
- Major lot subdivisions
- Planned unit developments
- Erosion and sediment control plans

▾ Commercial/Industrial Site Developments

- New commercial/industrial planned developments
- New commercial/industrial buildings/parking sites
- Additions/renovations to existing development sites

▾ Landscape Design

▾ Storm Water Best Management Practices (BMP)

- Environmental Sensitive Design (ESD) (micro-scale BMPS, rainwater harvesting, and site planning practices)
- Storm water conveyance systems (channels, storm drain pipe systems, etc.)
- Storm water quantitative controls (ponds, underground storage, infiltration and attenuation)
- Storm water quality controls to meet state and federal clean water acts (wetlands, filters, non-structural BMP, etc.)

▾ Utility Design and Analysis

- Sanitary sewer conveyance systems
- Sanitary sewer pump stations
- Sanitary sewer on-site treatment (septic fields and treatment plants)
- Potable water distribution systems

▾ Hydrologic Studies

- Drainage studies
- Flood plain analysis
- Stream restoration
- Reservoir rehabilitation/construction

▾ Green Sustainable Design

- LEED Site Design and Consulting
- LEED Site Certification Processing
- Water Conservation Design

▾ Land Use and Planning Consultation

▾ Transportation Engineering

- Traffic studies
- Intersection design
- Entrance plans
- Roadway improvement plans

▾ Reinforced Concrete Design

▾ Retaining Wall Design

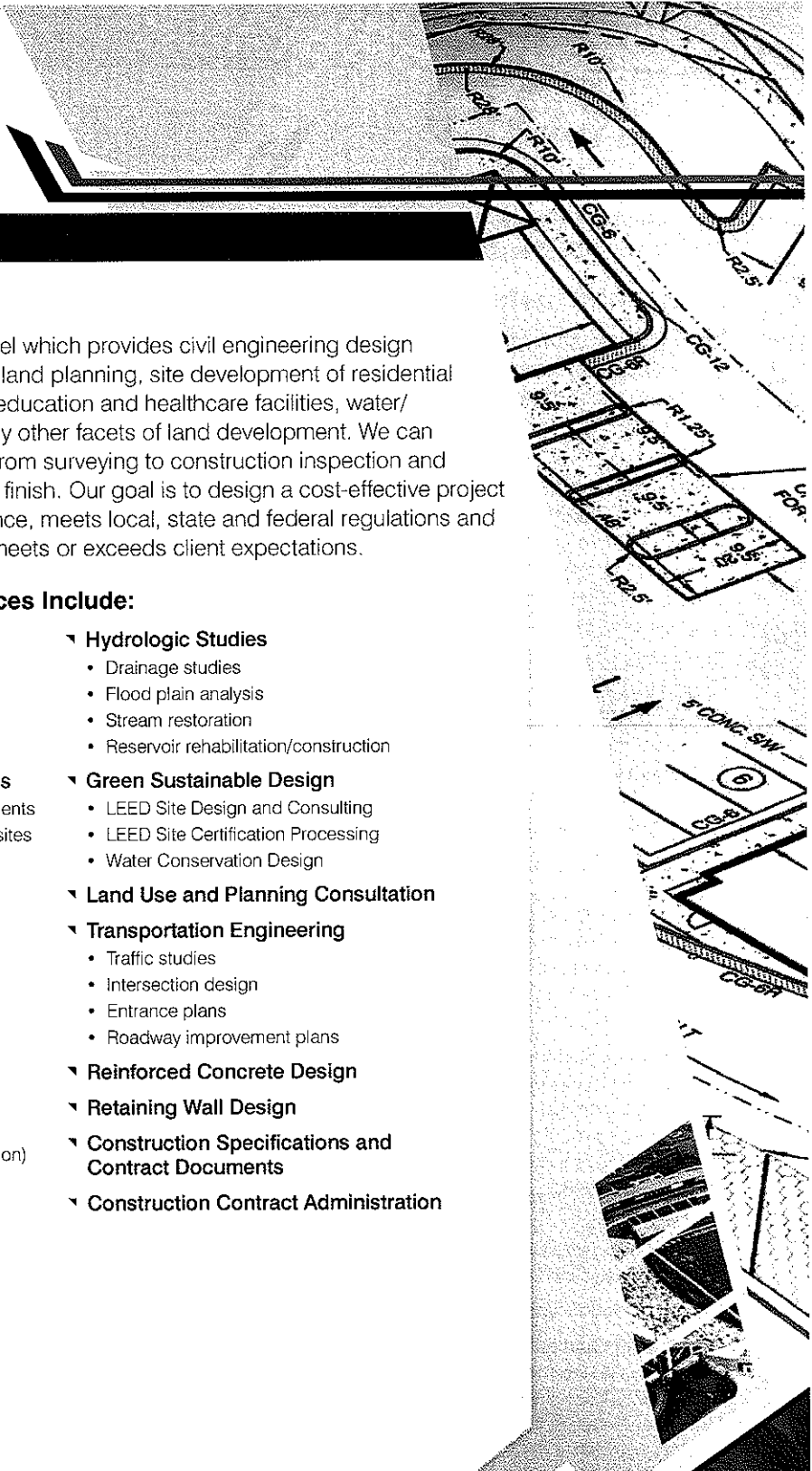
▾ Construction Specifications and Contract Documents

▾ Construction Contract Administration



Please contact Triad to ask about other services which may not be listed

www.triadeng.com



❖ ENVIRONMENTAL SERVICES

Triad provides a broad, comprehensive range of environmental consulting services to a variety of clients through the expertise of our diverse staff of environmental scientists, engineers, geologists, biologists, chemists and licensed remediation specialists. Our clients include federal and state regulatory agencies, county development offices, property owners, developers, banks, hospitals, and private industries.

We are proud of our relationships with state and federal environmental agencies, built over time through integrity and sound scientific work. Our staff is experienced and knowledgeable in current environmental regulatory requirements and has a proven track record of successfully completing projects for clients under such programs as the West Virginia Voluntary Remediation Program, Pennsylvania Act 2, RCRA, Leaking Underground Storage Tank Program, USEPA All Appropriate Inquiries and the USEPA Superfund Program.

Triad's Corporate Health and Safety Program requires all environmental staff to be fully trained in applicable OSHA standards and regulations, including the 40-hour Hazardous Waste Operations and Emergency Response Standard. Our Corporate Safety Manager prepares site specific Health and Safety Plans as appropriate to ensure the safety of our staff when working in potentially hazardous work environments.

Our Environmental Services Include:

- ▼ **Environmental Site Assessments**
 - Due Diligence Evaluations, including Transaction Screen Assessments and Phase I and Phase II ESAs
 - Vapor Intrusion Assessments
 - Remediation Design & Oversight
 - Human Health and Ecological Risk Assessments
- ▼ **Brownfield/Voluntary Cleanup**
 - WW Voluntary Remediation
 - PA Act 2 Projects
 - Community-wide Brownfield Assessments
 - Targeted Brownfield Assessments
- ▼ **Underground Storage Tanks**
 - UST Closure
 - Site Characterization and Corrective Action Plans
 - Groundwater and Soil Remediation
- ▼ **Data Validation and Data Quality Services**
- ▼ **Indoor Air Quality/Industrial Hygiene Assessments**
 - Asbestos Inspections
 - Indoor Air Quality Assessments
 - Radon and Mold Assessments
- ▼ **Mining Related Environmental Services**
- ▼ **Ecological Services**
 - Wetland Delineation Studies and Permitting
 - Wetland and Stream Mitigation
 - Forest Stand Delineation Studies
 - Rare, Threatened and Endangered Species Evaluation
- ▼ **Groundwater Studies**
 - Source Water Assessments
 - Hydrogeologic Investigations
 - Fate and Transport Modeling
 - Natural Attenuation Modeling
- ▼ **Permitting/Regulatory Compliance**
 - NPDES Permits
 - Storm Water Pollution Prevention Plans (SWPPP)
 - SPCC Plans
 - Clean Air Act
 - NEPA Evaluations
 - Endangered Species and Archeological Surveys



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❖ SURVEYING AND MAPPING SERVICES

Triad provides complete professional surveying and mapping services for clients in construction, mining and land development. All surveys are completed under the supervision of a licensed land surveyor experienced in the particular type of survey required. Triad utilizes GPS, robotic and conventional total stations with electronic data collectors. All surveys and mapping meet National Map Accuracy Standards or other appropriate quality standards. Triad routinely provides MSHA- and OSHA-trained survey crews, depending upon the site-specific requirements.

Our Surveying and Mapping Services Include:

- ▾ ALTA/ACSM Land Title Surveys
- ▾ Boundary and Subdivision Surveys
- ▾ Topographic and Planimetric Surveys
- ▾ Ground Control for Aerial Mapping
- ▾ Construction Layout and As-Built Surveys
- ▾ FEMA Flood Elevation Certificates
- ▾ Hazardous Material Site Surveys
(requires OSHA 40-Hour Certification)
- ▾ Hydrographic Surveys
- ▾ Support for Mining and Quarrying
Industries (requires MSHA certification)
- ▾ Quantity Determination Surveys
(Stockpiles, Mass Excavation)
- ▾ Streambed and Lake Soundings
- ▾ Well Plot Surveys for Oil and Gas Industry
- ▾ Settlement Monitoring and
Structural Deviation Surveys
- ▾ Locations of Delineated Wetlands



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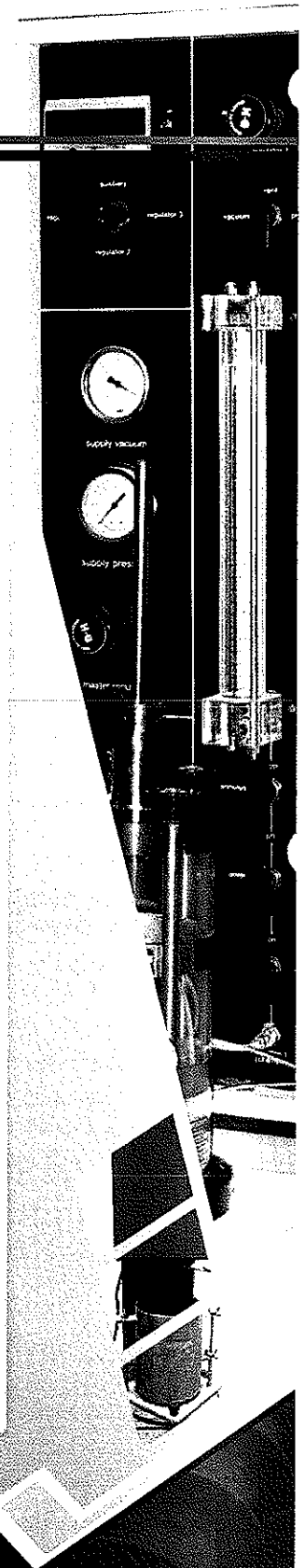
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❖ LABORATORY MATERIALS TESTING SERVICES

Providing support for our geotechnical engineering and construction monitoring divisions, Triad maintains complete laboratory facilities where tests are conducted by experienced technicians under the supervision of professional engineers. Our laboratory technicians hold many applicable state agency certifications. Materials tested include soil, concrete, aggregate, asphalt, rock and sprayed-on fireproofing. Our testing labs routinely participate in national quality control programs administered by AMRL and CCRL which follow AASHTO and ASTM testing procedures.

Our Laboratory Materials Testing Services Include:

- ▾ Soil Classification (Atterberg Limits and Grain Size Distribution)
- ▾ Moisture Content
- ▾ Specific Gravity
- ▾ Soil pH
- ▾ Organic Content
- ▾ Natural Density and Moisture Content
- ▾ Moisture-Density Relations (Standard and Modified)
- ▾ Maximum and Minimum Density (Granular Soils)
- ▾ California Bearing Ratio (CBR)
- ▾ Unconfined Compression
- ▾ Triaxial Shear
- ▾ Direct Shear
- ▾ Consolidation
- ▾ Permeability (Flexible and Rigid Wall)
- ▾ Los Angeles Abrasion
- ▾ Sodium Sulfate Soundness
- ▾ WVDOT Fractured Faces
- ▾ Clay Lumps and Friable Particles
- ▾ Flat and Elongated Particles
- ▾ Compressive Strength Testing
 - Concrete Cylinders
 - Concrete and Rock Cores
 - Grout Prisms, Grout Cubes and Mortar Cubes
 - Concrete Masonry Units
- ▾ Flexural Strength Testing - Concrete Beams
- ▾ Concrete Beam Shrinkage
- ▾ Concrete Chloride (Rapid Permeability, Shrinkage)
- ▾ Asphalt Testing (Absorption, Density and Extraction, Gradation, and Marshall Stability and Flow)
- ▾ Fireproofing Density and Moisture Content
- ▾ Pyritic Sulfur Content



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❖ CONSTRUCTION MONITORING, TESTING AND INSPECTION SERVICES

Quality Assurance/Quality Control (QA/QC) construction monitoring services have been core specialties since Triad was founded in 1975. We maintain a staff of experienced construction inspectors and technicians who are certified by ACI, WVDOH, VDOT, NICET, and numerous other local, state and/or nationally recognized organizations, as needed in the specific jurisdiction of the project. Our QA/QC management staff are long-term employees who have been instrumental in establishing close working relationships with our clients. Our growth has been the result of staff dedication, client satisfaction and significant repeat business from clients, many of whom have been with us for 25+ years. You can trust Triad to be constantly on guard for your interests. Triad will provide efficient, cost-effective services focused on the construction quality your project deserves.

Our Construction Monitoring Services Include:

- ▾ In-Place Moisture/Density Testing (sand cone and nuclear)
- ▾ Field Concrete Sampling and Testing
- ▾ Bearing Capacity Evaluation
- ▾ Footing, Wall and Slab Inspections
- ▾ Deep Foundation Construction Inspection (including driven piles, drilled piers, mini/micro piles and auger cast piles)
- ▾ Structural Steel Inspection (including visual inspection, non-destructive testing of welds, plumbness and inspection of bolted connections)
- ▾ Masonry Inspection (including mortar and grout testing and reinforcing steel inspection)
- ▾ Pre- and Post-Tensioning Inspection
- ▾ EIFS (Exterior Insulated Finishing System) Inspection
- ▾ Paint Thickness (Wet and Dry Film)
- ▾ Sprayed-on Fireproofing Inspection
- ▾ Firestop Inspection
- ▾ Floor Slab Flatness Testing
- ▾ Water and Sewer Line Construction Inspection
- ▾ Batch Plant Inspection
- ▾ Pre- and Post-Blast Inspections
- ▾ Blast Monitoring (seismograph)
- ▾ Reinforcement Locations (Cover Meter and Ground Penetrating Radar)
- ▾ Windsor Probe and Rebound Hammer Testing
- ▾ Concrete and Asphalt Core Drilling
- ▾ Field Asphalt Inspection
- ▾ Vapor Emission Testing
- ▾ HUD Inspections
- ▾ Draw Inspections



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❖ LANDSCAPE ARCHITECTURE

Triad approaches our site development projects with sensitivity to the functional, aesthetic and environmental demands of each project. Our work includes master planning and detailed site design for parks and recreational facilities, urban improvement areas, residential and institutional settings, and streetscapes.

Park and Recreation Planning and Design

Triad's work in park design and rehabilitation is extensive, ranging from small pocket parks to large regional facilities. We have an unparalleled track record in taking these projects from the concept phase to permitting and through construction.

Site Development

Triad's site development work requires a multidisciplinary approach. Landscape architects work closely with engineers to optimize the use of the site while at the same time enhancing aesthetics. Whether for corporate site campuses, universities, residential communities or mixed use and retail developments, the Triad design team integrates buildings, roadways, open public spaces and site amenities into plans that are both practical and pleasing. As part of the site development process, the firm provides site layout, grading, drainage and planting plans with each design.

Urban Design

A focus of interest in landscape architecture is the rehabilitation of public urban spaces. As infrastructure ages over time, streetscapes deteriorate and pedestrian areas become unattractive. Triad has been actively involved in Streetscape and Urban Design projects that restore these public spaces so that they can be enjoyed by all.

Additional Landscape Architecture Services Include:

- ▼ Programming
- ▼ Land-Use Studies
- ▼ Marketing Illustrations
- ▼ Site Selection, Inventory and Analysis
- ▼ Resort and Entertainment Planning
- ▼ Disturbed Lands Restoration
- ▼ Trail Studies
- ▼ Residential Estate Master Planning
- ▼ Feasibility Studies





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❖ WASTE MANAGEMENT SERVICES

Triad provides waste management services to various clients on a routine basis. Our experienced engineers and geologists have been responsible for complete design of hazardous waste and solid waste facilities. General duties have included site reconnaissance and selection, client assistance with applicable state/federal law compliance, subsurface investigation, hydrogeologic studies, quality control/quality assurance plans, preparation of construction drawings and bid documents, and construction oversight and certification.

All waste management projects are managed and supervised by a registered professional engineer or professional geologist who is responsible for developing and/or reviewing the cost and technical proposal, selecting team members to perform the various tasks associated with the project, and final review of all analyses and reports. Triad field technicians are experienced in monitoring operations relating to all aspects of landfill/impoundment design, including natural clay or synthetic liner construction, leachate collection lines, methane gas venting, and compaction testing. Triad has designed and currently implements annual in-house HAZWOPER refresher training, which is conducted by our own experienced professionals and Safety Manager.

Our Waste Management Services Include:

- ▼ Surface Water Drainage Design
- ▼ Leachate Quantity Analysis and Collection System Design
- ▼ Leachate Storage System Design
- ▼ Constructed Wetland Treatment Design
- ▼ Borrow Area Investigation and Evaluation
- ▼ Groundwater Monitoring Plans
- ▼ Slope Stability Analysis
- ▼ Alternative Liner System Design
- ▼ Remedial Design
- ▼ Final Closure Design and Post-Closure Care

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❖ WASTEWATER ENGINEERING SERVICES

Triad provides planning, design and construction administration for wastewater systems ranging in size from short sewer line extensions to major collection and treatment systems. Our experienced staff of professional engineers and designers provides personal attention and puts the needs of our clients first. They are well versed in all federal and state regulations related to wastewater systems, and they are extremely knowledgeable and experienced in working with funding agencies.

Our staff members have designed numerous wastewater collection and treatment systems for a diverse group of clients. We offer assistance and guidance in resolving problems while delivering high quality and innovative solutions through sustainable design. We can provide a turn-key project or serve in a limited role depending on the client's needs. Our background includes design of new facilities of varying magnitude, as well as system expansion and cost-effective rehabilitation of existing systems. We can provide operation and maintenance assistance as well as troubleshooting systems.

Efficient, cost-effective collection and treatment of wastewater is necessary to protect the health of the population and the environment. Triad has the experience and capabilities to assist you in the development of a dependable wastewater collection and treatment system to meet the needs of your community.

Wastewater Engineering Design Services Include:

- ▼ Preparation of Facilities Planning Studies and Preliminary Engineering Reports
- ▼ Assisting Clients in Obtaining Funding
- ▼ Design of Wastewater Systems
 - Line Layout
 - Hydraulic Analysis
 - Pump Station Design
 - Odor Control Facilities
 - Plant Layout and Design
 - Rehabilitation of Existing Systems
- ▼ Specifications and Construction Documents
- ▼ Permit Applications
- ▼ Construction Cost Estimates
- ▼ Assistance in Land Acquisition and Obtaining Rights-of-Way
- ▼ Assistance in Securing Competitive Construction Bids
- ▼ Construction Administration
 - Review of Shop Drawings
 - Processing Contractor's Periodic Pay Requests
 - Construction Monitoring
 - Semi-Final and Final Inspections
 - Preparation of Operation and Maintenance Manuals
 - One-Year Certifications
 - Final Project Close-Out



Please contact Triad to ask about other services which may not be listed

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❖ POTABLE WATER SYSTEM ENGINEERING SERVICES

Triad provides planning, design and construction administration for potable water systems ranging in size from relatively small line extensions to county-wide utility programs. Our dedicated staff of professional engineers and designers provides personal attention and puts our client's interests first. They are knowledgeable in all federal and state regulations related to potable water systems, and their experience and expertise in working with funding agencies is unmatched.

Our staff members have designed numerous water distribution systems and water treatment plants for a wide variety of clients. We offer assistance and guidance in resolving problems while delivering high quality and innovative solutions through sustainable design. We can provide a turn-key project or serve in a limited role depending on the client's needs. Our background includes design of new facilities of varying magnitude, as well as system expansion and cost-effective rehabilitation of existing systems. We can provide operation and maintenance assistance as well as troubleshooting systems.

Consistent sources and quantities of potable water are crucial for the health of the population. You can depend on Triad's assistance in the development of a reliable potable water system to meet the needs of your community and its businesses.

Our Potable Water System Engineering Services Include:

- ▾ Preparation of Preliminary Engineering Reports
- ▾ Assisting Clients in Obtaining Funding
- ▾ Design of Water Systems
 - Line Layout
 - Hydraulic Analysis
 - Booster Station Design
 - Water Storage Tank Design
 - Pressure Reducing Station Design
 - Plant Layout and Design
- ▾ Preparation of Specifications and Construction Documents
- ▾ Permit Applications
- ▾ Construction Cost Estimates
- ▾ Assistance in Land Acquisition and Obtaining Rights-of-Way
- ▾ Assistance in Securing Competitive Construction Bids
- ▾ Construction Administration
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ABOUT TRIAD ENGINEERING, INC.

Triad Engineering, Incorporated (TRIAD) is a full service engineering corporation specializing in the areas of civil and geotechnical engineering and design, subsurface exploration, environmental assessment and remediation, construction monitoring and inspection, laboratory testing, surveying, drilling and landscape architecture, among other earth science disciplines. Our work force includes civil, geotechnical and mining engineers, landscape architects, environmental scientists, geologists, hydrologists, chemists, surveyors, trained Computer-Aided Design (CAD) draftsmen, field and laboratory technicians, drillers and support personnel.

TRIAD was founded in Morgantown, West Virginia in 1975 by three principals who molded the firm based on their belief that if the highest standards were maintained throughout all aspects of the company, they would earn their clients' respect, therefore ensuring the firm's continued growth. Today, TRIAD is 100% employee owned and operated and has a staff of more than 200 full-time employees working from six office locations in Morgantown and St. Albans, West Virginia; Greensburg, Pennsylvania; Hagerstown, Maryland; and Winchester and Ashburn, Virginia. By providing an array of competent services, using modern equipment, and maintaining a well-trained professional staff, TRIAD has maintained the founders' philosophies and proven that customer satisfaction results in good relationships and repeat business.

Facilities and equipment available to support our staff have also grown substantially during the past thirty-five years. We have developed a fleet of drill rigs and support vehicles to meet the needs of our field operations. Well-equipped material testing laboratories are maintained to provide support for our geotechnical engineering and construction-related projects. Each office maintains secure computer networks to support CADD functions, hydrogeologic evaluations, water balance modeling, roadway design, storm water management and surface water drainage design, stability analyses, survey data reduction, and mapping. These broad in-house capabilities give us better control over project schedule, quality and cost, thereby minimizing problems that can occur during the various contract phases.

TRIAD employees pride themselves on their ability to provide the firm's clients with top-quality work that is on schedule and within budget. Our company is small enough to be responsive to the needs of our customers and large enough to remain at the forefront of scientific solutions.

The following is a brief summary of the types of projects completed by TRIAD:

- ◆ Institutional development and maintenance (universities, colleges, public and private school systems, and training facilities)
- ◆ Geotechnical analysis, including building and structure foundations, retaining walls, land development projects, landslide analysis and remedial design projects
- ◆ Civil engineering design and construction services for roads, bridges, runways, buildings and other infrastructure
- ◆ Precision surveying and mapping for all types of land acquisition and development, including construction / renovation, mine and remediation sites
- ◆ Environmental management including various manufacturing facilities, brownfields development, Phase I and Phase II studies, water quality testing, and EPA and state regulatory assessments and permitting
- ◆ Energy development including power plants, wind energy corridors, natural gas pipelines and utility facilities
- ◆ Commercial development including hotels, shopping centers, banks and office buildings
- ◆ Government facilities and buildings (federal, state, county and municipal)

References

WVU State Fire Training Academy

Mr. David J. Smith, PE
WVU Extension Services
160 Jackson's Mill Road
Weston, WV 26452
304/269-5100 x112

Wheeling Island Fire Station

Mr. Robert Herron
CITY OF WHEELING
1508 Chapline Street
Wheeling, WV 26003
304/234-3617

Cabela's Eastern Distribution Center

Mr. Rick Boccetti
Cabela's
1 Cabela's Drive
Sidney, Nebraska 69160
860/290-6251

**SVRTA Administrative and
Maintenance Complex roof**

Mr. Frank Bovina
Steel Valley Regional Transit Authority
555 Adams Street
Steubenville, Ohio 43952
740/282-6145

Parkview Maintenance Garage

Mr. Fred Renzella
Marshall County Schools
Post Office Box 578
Moundsville, WV 26041
304/843-4405

Client Testimonials

Rick Pursley First Sergeant

West Virginia State Police

"McKinley & Associates listens well to our staff's programming needs, and develops cost efficient design for us throughout the state."

David Sneed Architectural Director

School Building Authority

"Their projects continually come in on time, under budget, and the quality of their documentation is greatly appreciated."

Bill Miday Retired Superintendent

Wood County Schools

"The way they have serviced our County has been unmatched, they have been here so many times for face to face meetings with our staff as well as the Contractors. I would highly recommend this firm to anyone."



McKinley & Associates
Architects • Engineers • Interior Design

E-Mail - corporate@mckinleyassoc.com

Wheeling, WV

The Maxwell Centre / Suite 100
Thirty-Two - Twentieth Street
Wheeling, West Virginia 26003

P - (304) 233-0140
F - (304) 233-4613

Toll Free - (866) 767-0140

Charleston, WV

Charleston Area Alliance Building
1116 Smith Street / Suite 406
Charleston, West Virginia 25301

P - (304) 340-4267
F - (304) 340-4269

Online - www.mckinleyassoc.com

Washington, PA

Washington Trust Bldg. / Suite 1028
6 South Main Street
Washington, Pennsylvania 15301

P - (724) 223-8250
F - (724) 223-8252