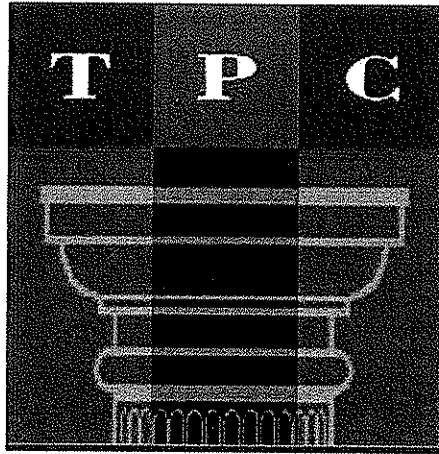


EXPRESSION OF INTEREST

**West Virginia Army National Guard
Buckhannon Readiness Center
DEFK 9015**



**THE
PRINCETON
COMPANIES**



**PRINCETON DESIGN, PLLC
36855 W. Main Street
Purcellville, Virginia 20132
540-338-1712**

RECEIVED

2009 FEB 25 PM 2: 24

WV PURCHASING
DIVISION

**PRINCETON DESIGN, PLLC
TABLE OF CONTENTS**

	<u>Tab</u>
State of West Virginia RFQ Forms.....	1
State of West Virginia Purchasing Affidavit.....	2
Expression of Interest.....	3
Design and Engineering Team.....	4
Princeton Design, PLLC.....	A
H.F. Lenz Company.....	B
Bowman Consulting.....	C
Project Approach.....	5



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
 DEFK9015

PAGE
 1

ADDRESS CORRESPONDENCE TO ATTENTION OF
 JOHN ABBOTT
 304-558-2544

RFQ COPY
 TYPE NAME/ADDRESS HERE

DIV ENGINEERING & FACILITIES
 ARMORY BOARD SECTION

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

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
02/11/2009				

OPENING DATE: 02/26/2009 BID OPENING TIME 01.30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
1	1	LS		906-00-00-001		
ARCHITECT/ENGINEERING SERVICES, PROFESSIONAL CONTRACT TO PROVIDE ARCHITECT & ENGINEERING SERVICES FOR THE WEST VIRGINIA ARMY NATIONAL GUARD, BUCKHANNON READINESS CENTER, UPSHUR COUNTY, WEST VIRGINIA, PER THE ATTACHED DOCUMENTATION. NOTICE A SIGNED BID MUST BE SUBMITTED TO: DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130 THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED: SEALED BID BUYER: JOHN ABBOTT----- RFQ. NO.: DEFK9015----- BID OPENING DATE: 02/26/2009-----						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

ATURE	TELEPHONE	DATE
-------	-----------	------

FEIN	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. All quotations are governed by the *West Virginia Code* and the *Legislative Rules* of the Purchasing Division.
4. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
5. 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.
6. Payment may only be made after the delivery and acceptance of goods or services.
7. Interest may be paid for late payment in accordance with the *West Virginia Code*.
8. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
9. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
10. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
11. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern all rights and duties under the Contract, including without limitation the validity of this Purchase Order/Contract.
12. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
13. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, this Contract may be deemed null and void, and terminated without further order.
14. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, and available online at the Purchasing Division's web site (<http://www.state.wv.us/admin/purchase/vrc/hipaa.htm>) 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.
15. **WEST VIRGINIA ALCOHOL & DRUG-FREE WORKPLACE ACT:** If this Contract constitutes a public improvement construction contract as set forth in Article 1D, Chapter 21 of the West Virginia Code ("The West Virginia Alcohol and Drug-Free Workplace Act"), then the following language shall hereby become part of this Contract: "The contractor and its subcontractors shall implement and maintain a written drug-free workplace policy in compliance with the West Virginia Alcohol and Drug-Free Workplace Act, as set forth in Article 1D, Chapter 21 of the West Virginia Code. The contractor and its subcontractors shall provide a sworn statement in writing, under the penalties of perjury, that they maintain a valid drug-free work place policy in compliance with the West Virginia and Drug-Free Workplace Act. It is understood and agreed that this Contract shall be cancelled by the awarding authority if the Contractor: 1) Fails to implement its drug-free workplace policy; 2) Fails to provide information regarding implementation of the contractor's drug-free workplace policy at the request of the public authority; or 3) Provides to the public authority false information regarding the contractor's drug-free workplace policy."

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division.
2. **SPECIFICATIONS:** 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. Complete all sections of the quotation form.
4. Unit prices shall prevail in case of discrepancy.
5. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
6. **BID SUBMISSION:** 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



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:
 DEFK9015

PAGE:
 2

ADDRESS CORRESPONDENCE TO ATTENTION OF:
 JOHN ABBOTT
 304-558-2544

RFQ COPY

TYPE NAME/ADDRESS HERE

SHIP TO

DIV ENGINEERING & FACILITIES
 ARMORY BOARD SECTION
 1707 COONSKIN DRIVE
 CHARLESTON, WV
 25311-1099 341-6368

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
02/11/2009				

OPENING DATE: 02/26/2009 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
BID OPENING TIME:				1:30 PM-----		
PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:						
				540-338-1713-----		
CONTACT PERSON (PLEASE PRINT CLEARLY):						
				Tom McKay-----		
***** THIS IS THE END OF RFQ DEFK9015 ***** TOTAL:						_____

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

ATURE	TELEPHONE	DATE
FEIN	ADDRESS CHANGES TO BE NOTED ABOVE	

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

STATE OF WEST VIRGINIA
Purchasing Division**PURCHASING AFFIDAVIT****VENDOR OWING A DEBT TO THE STATE:**

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

PUBLIC IMPROVEMENT CONTRACTS & DRUG-FREE WORKPLACE ACT:

If this is a solicitation for a public improvement construction contract, the vendor, by its signature below, affirms that it has a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the *West Virginia Code*. The vendor **must** make said affirmation with its bid submission. Further, public improvement construction contract may not be awarded to a vendor who does not have a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the *West Virginia Code* and who has not submitted that plan to the appropriate contracting authority in timely fashion. For a vendor who is a subcontractor, compliance with Section 5, Article 1D, Chapter 21 of the *West Virginia Code* may take place before their work on the public improvement is begun.

ANTITRUST:

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

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

LICENSING:

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

CONFIDENTIALITY:

The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. 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>.

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.

Vendor's Name: Princeton Design PLLC
Authorized Signature: Thomas B. McKay Date: 2/24/09

**PRINCETON DESIGN, PLLC
EXPRESSION OF INTEREST**

In accordance with the terms and conditions contained in RFQ Number DEFK 9015, Princeton Design, PLLC ("Princeton") is excited to express interest in providing the architectural, engineering, and related services for the planning and construction of an approximately 39,000 square foot permanent multi-use masonry steel-framed structure with supporting facilities for military units of the West Virginia Army National Guard in Upshur County, West Virginia.

We understand the facility will be a multi-use facility typical of a National Guard Armory with updated appearance, function, and integration of advance systems. The building may include offices, conference room, garage, locker room, shower facilities, limited sleeping, and large open space (assembly hall). The facility and grounds may include parking, attached or detached storage, fueling station, landscape, security lighting, fencing, and unique entry.

We recognize that functionality is paramount for this type of multi-use facility and the design will need to address a range of needs from utilitarian spaces to the comforts of lodging. We have many years experience meeting clients' needs for these types of buildings and believe we can contribute enhanced value to the West Virginia National Guard's goal of improving its facilities for readiness and mission accomplishment.

The primary contact for this RFQ is:

Mr. Thomas B. McKay
Vice President of Development
Princeton Design, PLLC
36855 W. Main Street
Purcellville, VA 20132
Phone: 540-338-1712
Fax: 540-338-1713
Email: tmckay@the-princeton-companies.com

PRINCETON DESIGN, PLLC DESIGN AND ENGINEERING TEAM

Adding value to the communities in which it lives, works, and serves, is part of the mission of the West Virginia Army National Guard. Having the proper facilities in place is a fundamental requirement to allow the Guard to fulfill its mission. Princeton Design has led design teams on numerous multi-use facilities and has assembled a highly talented team to ensure the design and engineering of the planned improvements at the Buckhannon facility meet the Guard's objectives. The team is outlined below, with further background on the qualifications of each team member included in the following pages.

Princeton Design, PLLC – Building Architecture and Interior Design

Princeton was founded in 1982 by Mr. Ralph “Rocky” LaRock who continues to serve as president and lead designer of the highly regarded architectural firm. Based in Purcellville, Virginia, the company has worked throughout the eastern United States and provides full service master planning, building design, interior design, architectural, and engineering services.

Princeton's design and architectural experience encompasses a broad range of governmental, commercial and residential properties. While we take care to make sure each design is responsive to its site and environmental context, our starting point is to completely understand the client's budget, programming, and timing goals. From this starting point we begin to think about how to put the building together. For multi-use facilities, we understand the complexities that come with the diverse space requirements and ensure that our designs are fully coordinated and provide the optimal design solutions. Princeton's design team includes LEED certified professionals and we pursue sustainable design goals consistently with our clients' objectives. Our hands-on approach continues throughout the design process and through construction. This approach has allowed us to develop many loyal, repeat clients.

In addition to Princeton's design capabilities, we have affiliated construction and development service arms that assist us with input on pricing and other valuable perspectives during the design process. With our in-house construction group, we are able to utilize real-time, real-world pricing as our design progresses and ensure that project costs will stay within budget.

A listing of representative projects is enclosed to indicate our capabilities. The list includes a number of assembly-type buildings, lodging, and maintenance facilities, as well as governmental structures.

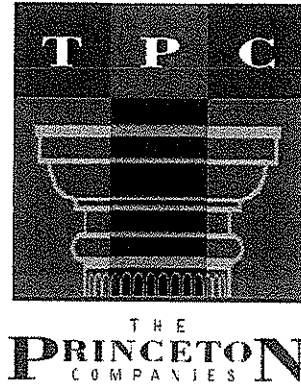
Princeton is licensed in West Virginia and maintains professional liability insurance in an amount that meets the requirement as stated in the RFQ.

H.F. Lenz Company – Structural, Mechanical, Electrical, and Plumbing Engineer

The H.F. Lenz Company has been providing a full range of engineering services for building systems for over 63 years. H.F. Lenz will serve as the project's structural, mechanical, electrical, and plumbing engineer. As outlined on the following pages, the company has extensive experience with military facilities, including new Army Reserve Centers in Morgantown, Kingwood, Elkins, Beckley, and Rainelle, West Virginia.

Bowman Consulting - Civil Engineer and Landscape Designer

Bowman Consulting is a full-service civil engineering, land planning, landscape design, and surveying firm headquartered in Chantilly, Virginia. Bowman has served as the civil engineer and/or surveyor on projects such as the West Virginia Air National Guard Operation Facility in Martinsburg, the Martinsburg Public Safety Center, WVUH-East City Hospital in Martinsburg, Jefferson Memorial Hospital in Charles Town, and the Berkeley Business Park in Berkeley County.

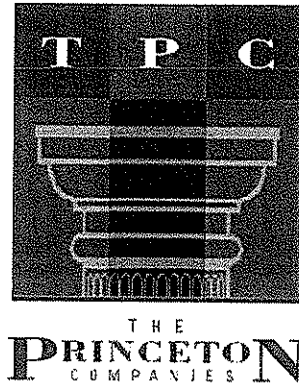


Governmental Buildings

- Loudoun County Attorney's Office / Valley Bank Building, *Design*, Leesburg, VA
- Purcellville Town Hall, *Design*, Purcellville, VA
- Loudoun County Juvenile Detention Center, *Design*, Leesburg, VA
- Leesburg Courthouse Clock Tower, *Design*, Leesburg, VA
- Loudoun County's Vietnam Veterans Memorial, *Design*, Leesburg, VA
- Loudoun County Government Center, *Design*, Leesburg, VA
- Town of Leesburg Government Center, *Design*, Leesburg, VA

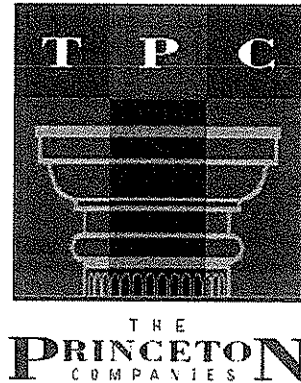
Maintenance Facilities

- Beacon Hill CC, *Design*, Leesburg, VA
- Harbor Station GC, *Design*, Dumfries, VA
- Laurel Hill GC, *Design*, Lorton, VA
- Old Hickory GC, *Design and Construction*, Woodbridge, VA
- PB Dye GC, *Design and Construction*, Ijamsville, MD
- Ritz-Carlton Golf Club at Creighton Farms, *Design and Construction*, Aldie, VA
- Wee Burn CC, *Design*, Darien, CT
- Westfields GC, *Design and Construction*, Clifton, VA
- Westwood CC, *Design*, Vienna, VA



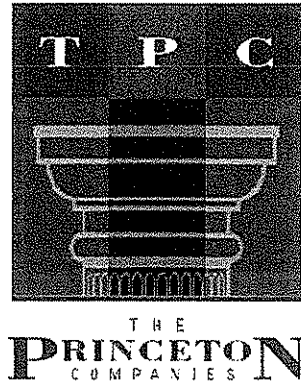
Golf and Country Clubs

- Westwood Country Club, *Clubhouse Renovation, Redesign and Construction Management*, Vienna, VA
- Cattail Creek Country Club, *Clubhouse, Pool House and Golf Instruction Building, Design*, Glenwood, MD
- Woodmont County Club, *Pro Shop/Golf Instruction Building and Golf/Cart Building, Design*, Rockville, MD
- Duckwoods County Club, *Clubhouse, Design and Construction*, Southern Shores, NC
- Laurel Hill Golf Club, *Clubhouse, Starter House, and Pump House, Design*, Lorton, VA
- Old Hickory Golf Club, *Clubhouse, Starter House, and Pump House, Design and Construction*, Woodbridge, VA
- Piedmont Golf Club, *Clubhouse, Design and Construction (2000), Clubhouse Expansion Design (2006)*, Haymarket, VA
- Raspberry Falls Golf & Hunt Club, *Clubhouse, Cart Building, and Golf Instruction Building, Design and Construction*, Leesburg, VA
- Harbor Station Golf Club, *Pump House, and Comfort Station, Design*, Dumfries, VA



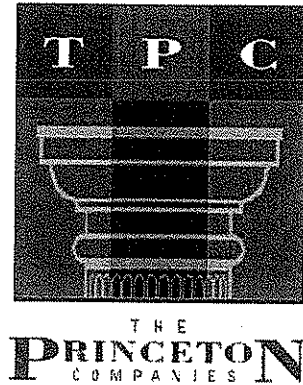
Resorts

- Marco Island Marriott Resort, The Rookery Golf Club, *Clubhouse Renovation and Golf Instruction Building, Design and Construction*, Marco Island, FL
- The Ritz Carlton at Creighton Farms Golf Course, *Interim Clubhouse and Golf Shop, and Comfort Station, Design and Construction*, Aldie, VA
- Turning Stone Resort & Casino, Verona, NY
 - Atunyote Golf Course, *Clubhouse, Design and Construction*
 - Lodge Pedestrian Bridge, *Luxury enclosed walkway connecting the Lodge to the existing Hotel, Design and Construction*
 - “Ska-Na” Luxury Spa, *Design and Construction*
 - Lodge Pool, Indoor Pool Complex, *Design and Construction*
 - “Lava” Dance Club, *Design and Construction*
 - Celebration Center, *Design and Construction* Helipad, *Design and Construction*
 - VIP Gaming, *Design and Construction*
 - “Club Two One” Private Dining, *Design and Construction* Tennis Clubhouse, Dome, and Outdoor Courts, *Design and Construction*
 - Hotel Entry/Landscaping, *Design and Construction*
 - Leopard Lounge, *Design and Construction*
 - Bingo Complex, *Design and Construction*
 - Tower Boutique, *Design and Construction*
 - SavOn Service Station and Convenience Store, *Design and Construction*
 - Multiple interior and exterior renovations to existing hotels and other structures, *Design and Construction*



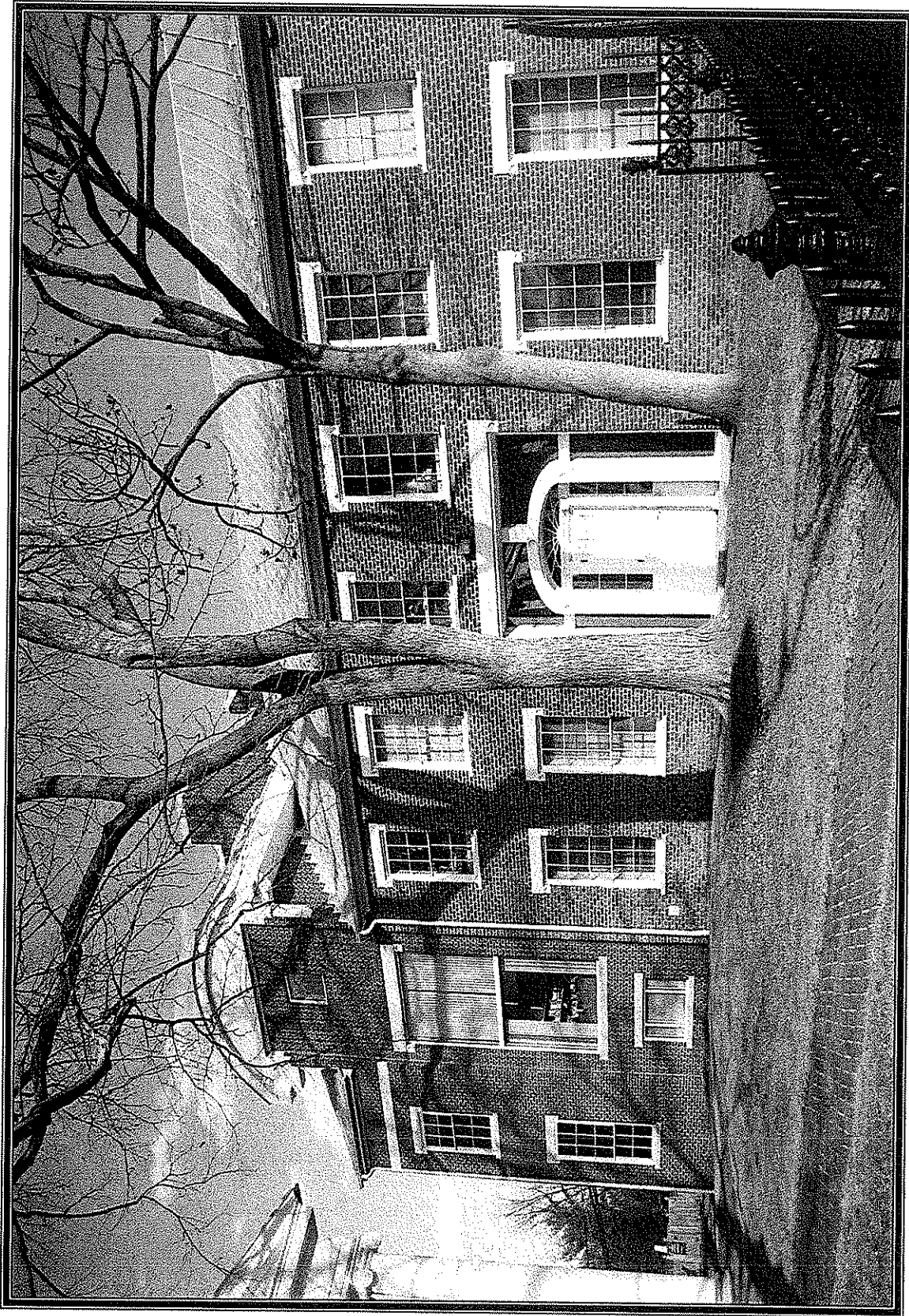
Community Amenities

- The Ritz Carlton at Creighton Farms Golf Course, *Gatehouse, Pump House, Water and Waste Water Treatment Facilities, Design and Construction*, Aldie, VA
- Beacon Hill, *Water Treatment Facilities*, Leesburg, VA
- Kings Crossing Community Center and Pool Complex, *Design and Construction*, Boyds, MD
- Arora Hills Community Center and Pool Complex, *Construction*, Clarksburg, MD
- Ashburn Village Visitor and Welcome Center, *Design*, Ashburn, VA
- Cheltenham Pool House, *Design and Construction*, Ashburn, VA
- The Mills Pool House, *Design and Construction*, Ashburn, VA

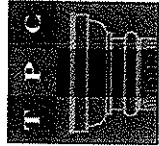


Veterinary Medicine Facilities

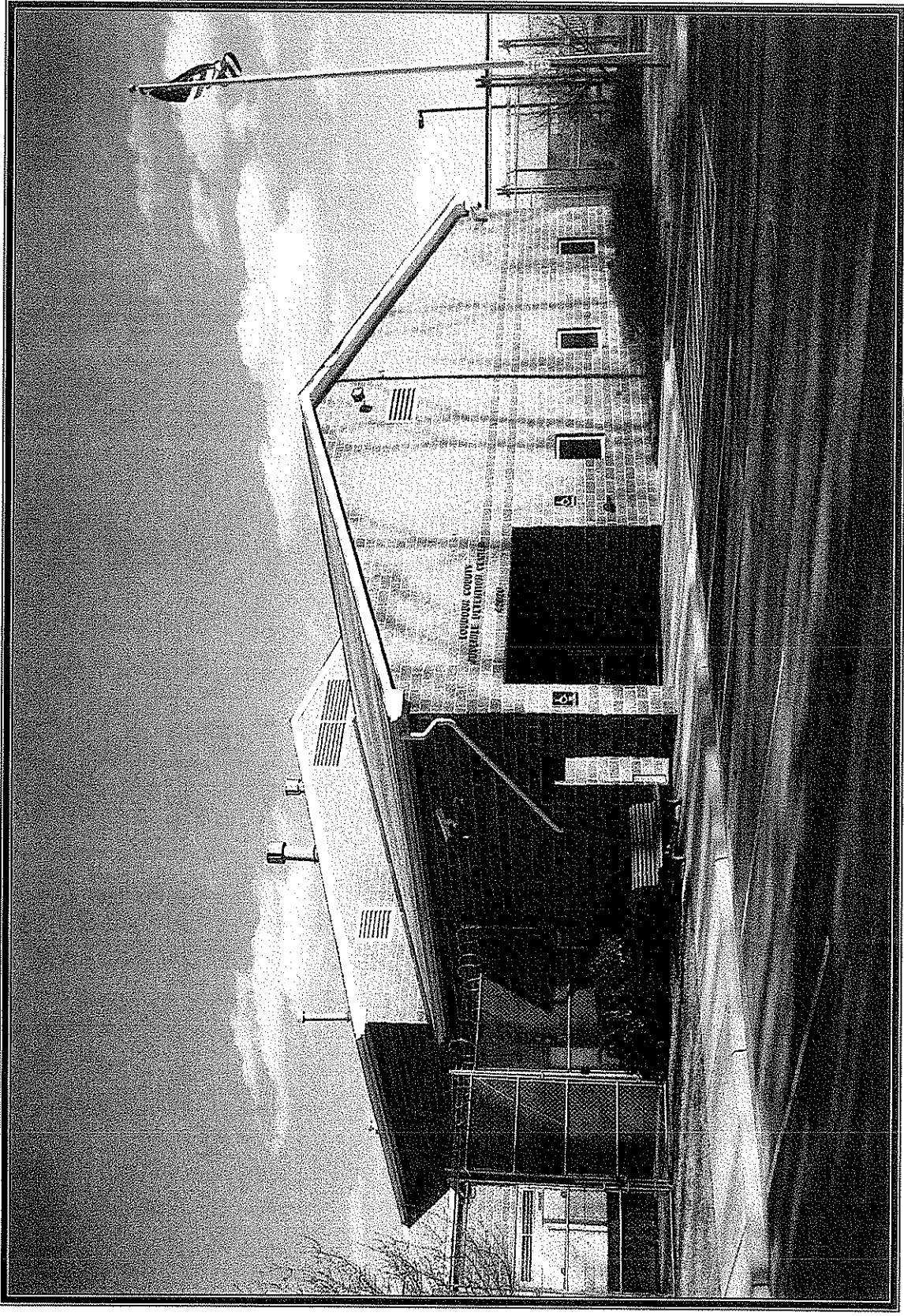
- Leesburg Veterinary Hospital, *General Veterinary, Tenant build-out in new retail center and Design of new Hospital, Leesburg, VA*
- Ashburn Veterinary Hospital, *General Veterinary, Renovation to existing house in historic area for small animal practice, Ashburn, VA*
- Old Mill Veterinary Hospital, *General Veterinary, Addition to existing kennel facility for veterinary practice. New retail "gallery" to connect the new and existing buildings, Leesburg, VA*
- Old Mill Cattery, *Feline Boarding, Addition to existing canine kennel facility for feline boarding, Leesburg, VA*
- Veterinary Referral Center, *Referral, New building for two veterinary specialists. Separate wings for surgery and medicine, with shared back-of-house spaces, Manassas, VA.*
- Ashburn Veterinary Hospital, *General Veterinary, Expansion of previous facility completed ten years ago for same client. Large addition and renovation of existing building, Ashburn, VA*
- Ashburn Feline Hospital, *Feline Veterinary, New building for feline specialty practice, Ashburn, VA*
- TLC, The Life Centre, *Specialty / 24-Hour Emergency, Two story with elevator, in new lease-hold building for 10 veterinary specialists, Leesburg, VA*



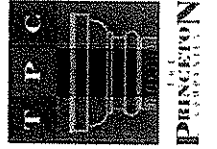
LOUDOUN COUNTY ATTORNEY'S OFFICE
- VALLEY BANK BUILDING
LEESBURG, VA

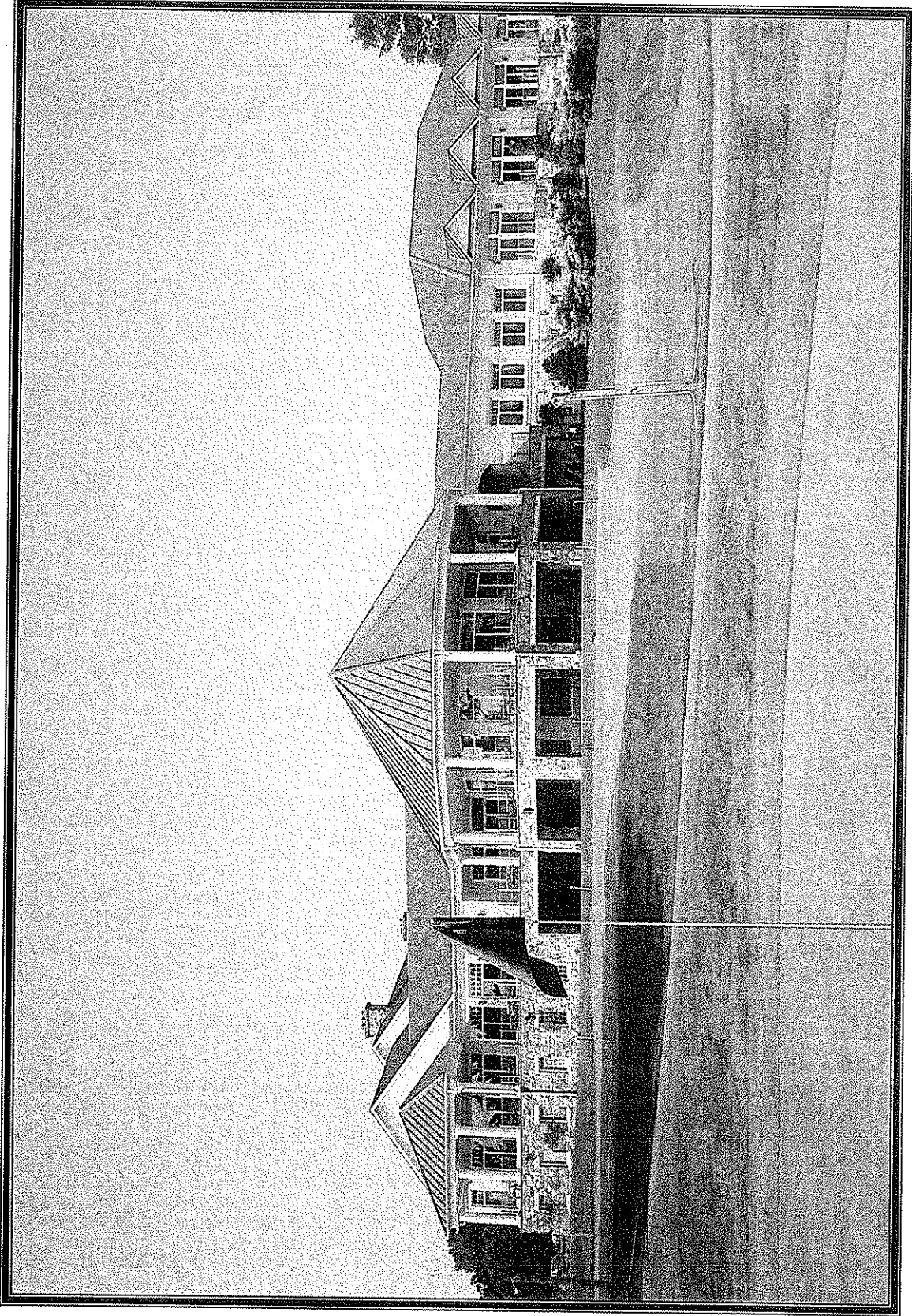


THE
PRINCETON
COMPANY

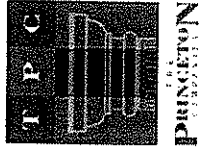


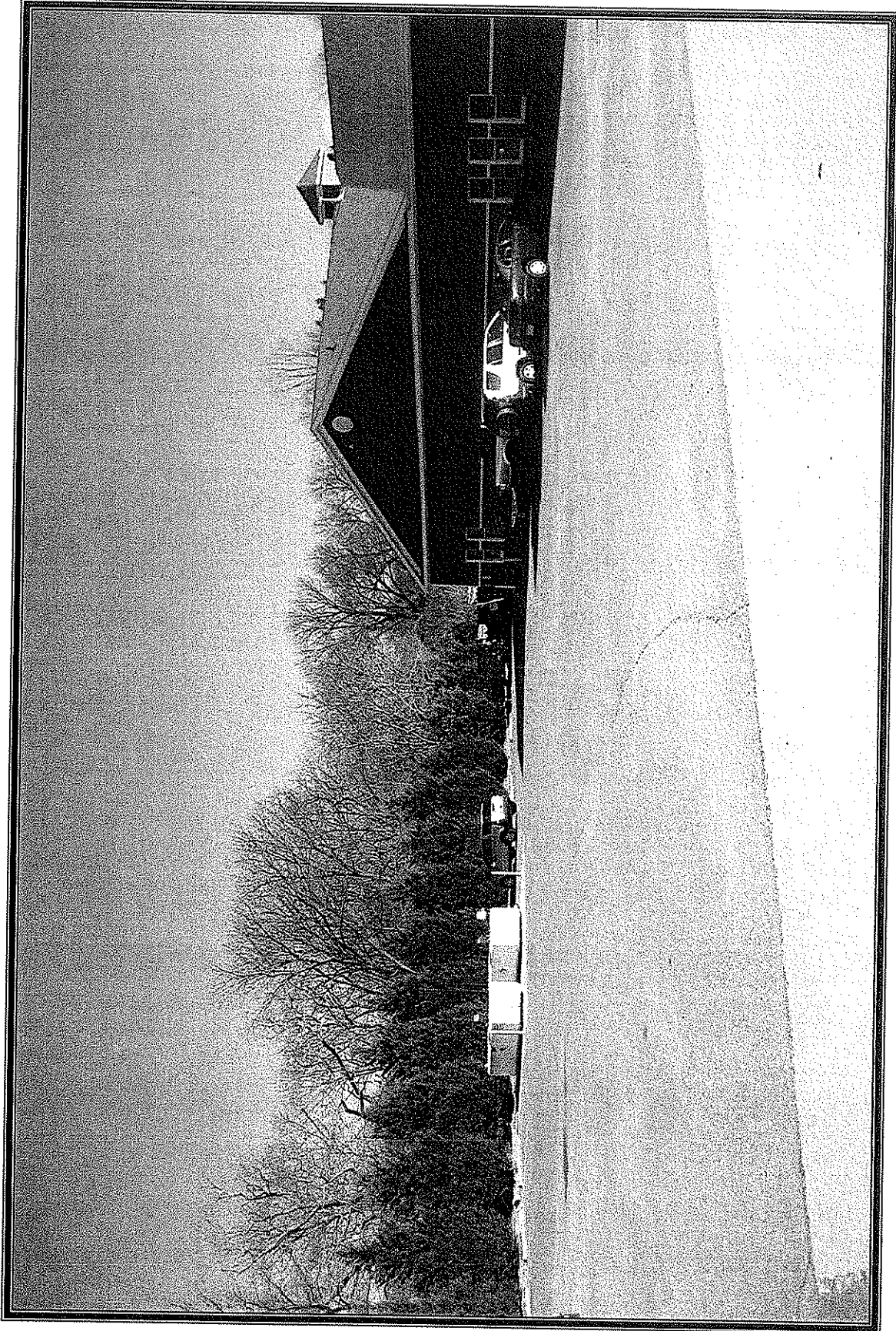
LOUDOUN COUNTY JUVENILE DETENTION CENTER
LEESBURG, VA



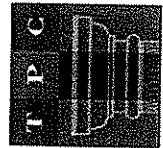


WESTWOOD COUNTRY CLUB
CLUBHOUSE
VIENNA, VA





WESTWOOD COUNTRY CLUB
MAINTENANCE FACILITY
VIENNA, VA



THE PRINCETON CLUB



Currently in its 63rd year, the H.F. Lenz Company is a Pennsylvania-based firm offering a full range of engineering services for building systems, infrastructure, and industry. Our projects span the nation, with the heaviest concentration in the Northeast, and exceed \$300 million in MEP construction annually. Each market sector—corporate, government, health care, education, and industry—is served by a team of specialists who understand the unique needs of the clients they serve. We currently have 182 employees, including 47 Professional Engineers licensed in a total of 40 states, and office locations in Johnstown, Pittsburgh, and Erie, Pennsylvania.



Services offered include:

- Mechanical Engineering
- Electrical Engineering
- Plumbing Engineering
- Life Safety / Fire Protection Engineering
- Communications Engineering
- LEED Design Services
- Civil Engineering
- Structural Engineering
- Industrial Engineering
- Surveying
- Construction Phase Services
- Commissioning

A remarkable 85 percent of our work consists of repeat commissions from clients, including the U.S. Army Corps of Engineers, who appreciate our responsive, value-added service. We've earned their trust by:

- Designing well-functioning systems that work *with* a building's architecture rather than being constrained by it.
- Achieving the optimal balance of system performance with the client's budget through value engineering.
- Designing system infrastructures—including communications—that accommodate growth and changing technology.
- Phasing installations to avoid disrupting normal and critical operations.
- Keeping construction cost and schedule on track with enhanced construction-phase services.
- Commissioning new systems to assure that they function as intended.



Experienced Project Team

The team that will serve on this contract is comprised of dedicated, multi-discipline individuals, many of whom have been working together for almost a decade. Together they have taken on the challenges of numerous high profile, complex projects and have derived workable, cost-effective solutions that have met the objectives of the client.

H.F. Lenz Company has provided engineering services for \$75 million of construction for the Baltimore Corps of Engineers over the past 20 years including 7 indefinite delivery-type contracts and 11 new reservé centers, several of which were design/build projects. We have held six (6) previous IDTC's for Letterkenny under which we have completed numerous projects requiring a variety of engineering expertise.



Military Facilities

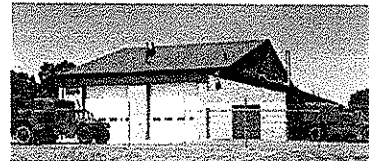
The following new Military Facilities contain a variety of relevant spaces including offices, maintenance and storage facilities, and various shops and production areas.

Regional Maintenance Facility, Pennsylvania National Guard Facility, Johnstown, PA. HFL was responsible for the engineering design of a New Maintenance Shop for the Pennsylvania National Guard Facility consisting of 23,560 sq. ft. with approximately 8,000 sq. ft. of office and maintenance shop area and the remainder for storage and eight vehicle maintenance bays. The project included flammable storage, general storage areas, weapons vault, security system design, and an on-site fuel dispensing station. The entire area is protected by a perimeter fence and automatic access gates entering the site. Total Construction Cost: \$4,200,000.

New U.S. Army Reserve Centers (USARCs) in Morgantown, Kingwood, and Elkins, WV. HFL provided the MEP services for all three of the facilities which included:

- Morgantown – 21,700 sq. ft. Administrative and Training Building, 5,500 sq. ft. four bay Organizational Maintenance Shop (OMS)
- Elkins – 12,000 sq. ft. Administrative and Training Building, 4,200 sq. ft., three bay OMS
- Kingwood – 19,000 sq. ft. Administrative and Training Building, 5,000 sq. ft. four bay OMS, and 600 sq. ft. of covered storage area

Total Construction Cost: \$5,400,000.



New USARC in Beckley and Rainelle, WV. HFL provided the MEP services for both of the facilities which included:

- Beckley – 27,511 sq. ft. Administrative and Training Building, 2,709 sq. ft. OMS
- Rainelle – 19,444 sq. ft. Administrative and Training Building, 7,532 sq. ft., three bay OMS

Total Construction Cost: \$5,400,000

U.S. Army Reserve Aviation Center, Weirton, WV. Under this design/build contract, the HFL provided engineering design services for a 30% concept design for this new reserve center. The facility is comprised of a 16,000 sq. ft. training building and a 6,300 sq. ft. organizational maintenance shop (OMS).

New USARC in Grantsville, PA. HFL provided the MEP Engineering services for a 15,000 sq. ft. training building and 2,400 sq. ft. OMS

Total Construction Cost: \$4,500,000

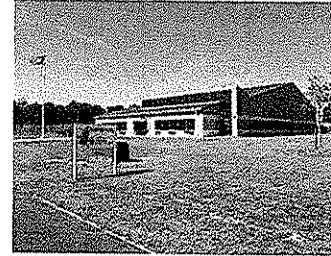


H.F. LENZ
COMPANY

Relevant Project Experience

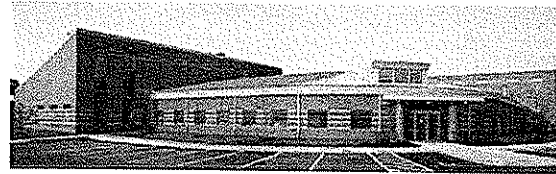
New USARC in Brownsville, PA. HFL provided the MEP Engineering services for a 20,000 sq.ft. training building and a new six bay OMS
Total Construction Cost: \$3,600,000

U.S. Armed Forces Aviation Facility, Johnstown, PA. HFL provided MEP, Structural, and Civil Engineering Services and Land Surveying Services for a new 120,000 sq.ft. aviation facility consisting of a training building to accommodate 300 reservist, a new hangar facility, and site development for the 80-acre site. Total Construction Cost: \$30,000,000.



Civil Engineering Building for the 911th Airlift Group, in Coraopolis, PA. HFL provided the MEP, Civil, Structural, and Land Surveying Services for a new 21,000 sq.ft.

building housing offices, classrooms, conference rooms, drafting room, print room, support facilities, plumbing, sheet metal and welding shop, carpentry shop, electrical shop, HVAC and liquid fuels shop, Battery shop, Fire extinguisher shop, storage facilities and covered storage area. The project was phased to allow existing facilities to remain in use during construction. Total Construction Cost: \$4,300,000.



Operational Maintenance Facility, Johnstown, PA. HFL provided MEP, Structural and Civil Engineering for a new 12,700 sq.ft. Organizational Maintenance Facility with eight work bays. Total Construction Cost: \$4,690,000

Letterkenny Army Depot, U.S. Army Corps of Engineers

Chambersburg, PA. HFL has completed numerous projects throughout the Letterkenny Army Depot on five IDCs over the past 20+ years, including Building 350 which accommodates repair and maintenance for tactical vehicles, and Building 320 which accommodates painting and repair of military vehicles. Our services have included mechanical, electrical, fire protection, structural, and civil design services for various new construction, alteration projects and repair projects.



Additional Military Facility Project Examples:

Army Reserve Center, Wheeling, WV

- New 284-member reserve center with training building and maintenance shop

Morlock Army Reserve Center, Pittsburgh, PA

- HVAC modifications

Copely Army Reserve Center, Oil City, PA

- Boiler addition

Steele Army Reserve Center, Pittsburgh, PA

- Complete HVAC system replacement

Camp Dawson, Kingwood, WV

- Three new billeting facilities

Walter Reed Army Medical Center, Washington, D.C.

- Energy engineering analysis program, main hospital building

Corps of Engineers Offices, The Wanamaker Building, Philadelphia, PA

- Tenant fit-up

Ford City Armory, Ford City, PA

- New 24,400 sq.ft. training center with classrooms and kitchen/dining facilities

Naval Air Station, Lakehurst, NJ

- Air conditioning tune-up study

Various Activities, Pennsylvania, New York, and New Jersey

- Specialized energy studies

Naval Ship Parts Control Center, Mechanicsburg, PA

- Administrative facility improvements

Naval Research Laboratory, Washington, D.C.

- Three indefinite delivery contracts for mechanical, electrical, and structural engineering services (Chesapeake Division)

Oceana Naval Station, Virginia Beach, VA

- Energy monitoring and control system
- Boiler plant modifications (Atlantic Division)

Additional Relevant Project Examples:

St. Marys Fire and Police Station, St. Marys, PA. HFL Provided MEP Engineering Services for a new 22,000 sq.ft. facility to house the Police and Fire Department. The project included administration offices, evidence storage areas, weapons storage, and a 6,500 sq.ft. apparatus room to house fire trucks, emergency vehicles, and equipment center. The design also included the 24-hour emergency dispatch center. Total Construction Cost: \$4,000,000





H.F. LENZ
COMPANY

Relevant Project Experience

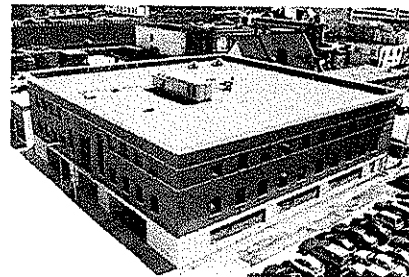
North Middleton Township, Carlisle, PA. HFL provided MEP Engineering Services for a new 11,000 sq.ft. municipal building and a new 24,000 sq.ft. public works building. The facilities housed municipal offices, meeting hall, sheriff's holding/processing area, vehicle maintenance and storage areas.

ATA of North Central Pennsylvania, New Regional Transit Facility, Johnsonburg, PA. HFL provided engineering services for the design of the 37,700 sq.ft. new administration, maintenance, vehicle storage and fleet fueling facility.

Office Building Project Examples

National Drug Intelligence Center (NDIC), Johnstown, PA. HFL Provided MEP, Civil, and Structural Engineering services for the tenant fit-up of an existing building to house the various function of the NDIC. The project included extensive modifications to the base building and tenant spaces. The project also including the design of a new SCIF. Total Construction Cost: \$3,500,000

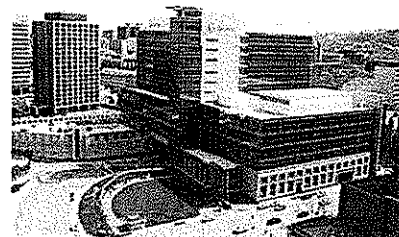
SSA Johnstown, Johnstown, PA. HFL provided MEP, Civil and Structural Engineering Services and Land Surveying Services for a new 40,000 sq.ft. design/build office building. Total Construction Cost: \$2,500,000



U.S. Drug Enforcement Agency, Pittsburgh, PA. HFL Provided MEP Engineering Services for a new 50,000 sq.ft. design/build office building. The project has received a LEED™ Certified Rating. Total Construction Cost: \$4,33,096 (shell & site), \$6,256,994 (with tenant fit-out services)

Data Processing Facilities Example

New Client Service Center for Mellon Financial Corporation (now Bank of New York Mellon), Pittsburgh, PA. HFL Provided MEP Engineering Services for a new 750,000 sq.ft. data processing





H.F. LENZ
COMPANY

Relevant Project Experience

and main operations center and a 55,000 data center. Functions at the facility include check processing; retail, custom and wholesale lockbox operations; government processing, retail paying, statement insertion and other retail operations; international trade operations; corporate mail operations; corporate staffing; and global cash management administration. The project has received many awards including:

2001 Integrator Award, Consulting-Specifying Engineer Magazine

2004 Office Building of the Year, BOMA Mid-Atlantic Division

Total Construction Cost: \$150,000,000

Production Facilities Examples

Kennametal Inc., Machine Systems Division, Solon, OH. HFL provided MEP, Structural and Civil Engineering for a new building housing 60,000 sq.ft. of office and administration area, a 120,000 sq.ft. manufacturing, assembly, and distribution area, and a 3,000 sq.ft. employee cafeteria. Total Construction Cost: \$11,000,000

Cambria County Association for the Blind and Handicapped, Johnstown, PA. HFL Provided MEP, Structural and Civil Engineering for a new 27,200 sq.ft. office and manufacturing facility with special process ventilation system for the plant area and VAV cooling in the office areas. Total Construction Cost: \$1,130,000 (\$170,000 under budget)

LEED™ and Sustainable Design

H.F. Lenz Company has been a proud member of the United States Green Building Council since 2000 and currently has 14 LEED™ Accredited Professionals on staff. Our firm has gained a high level of knowledge in the building green process and we possess the experience to successfully apply these principles to all building projects.



H.F. Lenz Company currently has 14 projects that have attained various levels of LEED™ Certification, and 12 design projects, 14 commissioning projects, and eight projects involving both design and commissioning services pending LEED™ Certification. We welcome the opportunity to work with the client and the selected design professionals to determine sustainable strategies and options for your unique project.

H.F. Lenz Company was recently ranked in the "Top 100 Green Design Firms" in the Country by ENR Magazine (June 2008). That same month we became an Energy Star® Partner Firm, and to-date have been involved in the design of four buildings that have attained an Energy Star® Rating.



Mr. Kohler has over 30 years of experience and has been directly involved in 7 indefinite delivery contracts with the Baltimore District Corps of Engineers and design of numerous military facility projects. Mr. Kohler is responsible for the evaluation, planning, and development of industrial and commercial sites ranging from several acres to several hundred acres. He is also experienced in boundary and topographic surveys, highway and bridge design, building structures, water systems, and municipal engineering. His project experience includes:

Letterkenny Army Depot
Chambersburg, Pennsylvania
Project Manager for five IDCs; Projects include: Depot-wide water distribution system evaluation; Rehabilitation of industrial waste treatment pump stations and sewage lift stations; Erosion and sedimentation control plan for ammunition storage area

U.S. Army Reserve Aviation Facility
Johnstown, Pennsylvania
New multi-building, 120,000 sq.ft. reserve complex

Raytheon Company
Phoenix Missile Final Assembly
and Checkout Facility
Chambersburg, Pennsylvania
Site development and structural design

Federal Correctional Institution
Loretto, Pennsylvania
New one-mile perimeter roadway, high-intensity roadway lighting, site utilities, and security upgrade including building additions

Slippery Rock University
Slippery Rock, Pennsylvania
New 79,424 sq.ft. science and technology building

West Virginia University
Morgantown, West Virginia
Engineering study for the retrofit of a 100,000 sq.ft. laboratory building

A/C Power Colver Operations
Colver, Pennsylvania
Civil/structural repair projects at 131 MW Single cycle power plant

Bethlehem Steel Corporation
Johnstown, Pennsylvania
Structural design for expansion of cooling bed to accommodate increased billet sizes

Appleton Papers, Inc.
Spring Mill
Roaring Spring, Pennsylvania
Design and installation of new overhead crane system

GPU Energy
Brookville, Pennsylvania
Flammable and explosive material storage area

United States Postal Service
Pennsylvania and West Virginia
Project Manager for over 300 various repair and alteration projects under nine IDCs

Education

Bachelor of Science, Civil Engineering Technology 1977, University of Pittsburgh at Johnstown

Experience

H.F. Lenz Company 1978 - Present

Professional Registration / Certification

Licensed Professional Engineer in Pennsylvania • Ohio • Maryland • Virginia • West Virginia

Professional Affiliations

American Society of Highway Engineers • American Institute of Steel Construction



Mr. Blackner is responsible for the complete layout, design and detailing of building structural systems. He has diverse experience in the structural analysis and design of projects involving steel, engineered masonry, reinforced cast-in-place concrete, pre-cast/pre-stressed concrete and wood frame structures. His project experience includes (*indicates prior experience):

Letterkenny Army Depot
Chambersburg, Pennsylvania
Structural Engineer for two IDCs; Projects include: Structural design for a new mezzanine and test equipment enclosure; Structural modifications to existing garage bays; Complete design of missile test firing range; 1,400 sq.ft. addition to the Security Headquarters

U.S. Air Force - 911th Airlift Group
Coraopolis, Pennsylvania
Structural Engineer for various repair and alteration projects under an IDC. Projects included:; Renovation of Aerial Port Bldg, Bldg 130; Alterations to the Pharmacy, Bldg 319; Repairs and alterations to the Base Exchange, Bldg 300;

Time Warner
Coudersport, Pennsylvania
Building envelope evaluation and recommendations to correct moisture and condensation issues

University of Charleston
Brotherton Hall
Charleston, West Virginia
Four-story design-build dormitory constructed of pre-cast hollow core plank on masonry bearing walls and miscellaneous steel framing. Exterior wall construction is brick veneer with metal stud back-up. Spread footing foundations bear on "CLFM" fill material.

West Virginia University Medical Center
Ruby Memorial Hospital
Morgantown, West Virginia
Structural design for a new eight-story medical building with a three story vertical addition on a portion of the existing four-story building. Both buildings are connected via a three-story skyway. All framing is structural steel with a caisson and grade beam foundations system

Stonewall Jackson Clubhouse
Stonewall Jackson Resort, West Virginia
New two story clubhouse. Portions of the upper floor and roof were framed with heavy wood timber. The timber framing manufacturer's load was supported from below with steel and conventional wood framing

Robinson & McElwee Law Office Building
Charleston, West Virginia
New four story steel frame office building with composite beam floor construction. Due to the close proximity of the property lines, the foundation system consisted of a mix of caissons, auger cast piles and grade beams. The enforced building code was IBC2000.

Social Security Administration
Woodlawn Chiller Plant
Woodlawn, Maryland
Structural analysis and upgrade of a supported floor to support new hanging pipe load; Design of a monorail trolley systems for maintaining large equipment

Education

Associate, Mechanical Engineering Technology, 1988, Pennsylvania State University
Associate, Architectural Engineering Technology, 1988, Pennsylvania State University

Experience

H.F. Lenz Company 1998 - Present
L. Robert Kimball & Associates 1995 - 1998
George D. Zamias Developer 1989 - 1995

Professional Certification

Licensed Professional Engineer in Pennsylvania • Maine • Maryland • Massachusetts • North Carolina • New York

Professional Affiliations

American Institute of Steel Construction



Mr. Deter is responsible for the engineering design of all trades, the supervision of senior designers, the preparation of reports to determine optimal systems and/or equipment selections, and the coordination and checking of contract documents for completeness and quality. He is responsible for coordination with the client, the architect, regulatory agencies, and the engineering staff; project scheduling; and other project management functions. Mr. Deter is experienced in the design of building systems for both new buildings and building retrofits for educational, health care, commercial, government, industrial, residential, and utility related facilities. He is experienced in the design of power distribution systems; emergency power systems and monitoring; uninterruptible power supplies; lighting and emergency lighting systems; fire alarm systems; nurse call; security; sound; and telephone systems. His project experience includes:

New Armory, Pennsylvania Department of Military Affairs
Ford City, Pennsylvania
New 24,400 sq.ft. training center with classrooms and kitchen/dining facilities and maintenance shop

Pennsylvania National Guard Facility
Regional Maintenance Facility
Johnstown, Pennsylvania
New maintenance shop consisting of 23,560 square feet with approximately 8,000 square feet of office and maintenance shop area and the remainder for storage and eight vehicle maintenance bays

U.S. Army Reserve Center Aviation Facility
Johnstown, Pennsylvania
New 120,000 sq.ft. multi-building reserve center including a new training building and hangar facility. Project included 90% design for a new 200-bed Marine Corps Reserve barracks

U.S. Army Reserve Center
Wheeling, West Virginia
Design/build project including a 24,000 sq.ft. training building with classrooms, administrative areas, library, assembly hall,

weaponer room and medical section, and 17,000 sq.ft. OMS/AMSA

U.S. Army Reserve Aviation Center
Weirton, West Virginia
Design/build project including a 16,000 sq.ft. training building with classrooms, assembly hall, arms vault, armorer, weaponer room, and Comsec training area, and a 6,300 sq.ft. OMS

U.S. Army Reserve Center
Grantsville, Maryland
New 15,300 sq.ft. training building with classrooms, assembly hall, library, Comsec training area, and weaponer room, and 2,400 sq.ft. OMS

Letterkenny Army Depot
Chambersburg, Pennsylvania
Various projects under 5 IDCs including:
– Building 350 – Vehicle maintenance building lighting and fire alarm system replacement
– Building 1 - HVAC system upgrades

U.S. Air Force – 911th Airlift Group
Corapolis, Pennsylvania
Various projects under two IDCs

Education

Bachelor of Science, Electrical Engineering Technology, 1987, University of Pittsburgh at Johnstown

Experience

H.F. Lenz Company 1992 – Present • Parfitt/Ling Consulting Engineers 1990 - 1992
Gary Johnston & Assoc., Inc. 1987 - 1990

Professional Certification

Licensed Professional Engineer in Pennsylvania, Illinois, Maryland, New Jersey, Ohio, Virginia, and West Virginia; LEED™ Accredited Professional

Professional Affiliations

Professional Engineers in Private Practice; NSPE/PSPE; APPA; U.S. Green Building Council



Mr. Stewart has over 20 years experience in the design of HVAC, plumbing, and fire protection systems. His responsibilities have included code compliance verification, schematic layout, calculations, equipment selection, control system selection, specification writing, coordination, life cycle cost analyses, cost estimating. His experience includes the design of mechanical systems for military installations, industrial plants, office buildings, hospitals, and educational facilities. He has also been involved in the design of chiller and boiler plants. Mr. Stewart's project experience includes (*indicates prior experience):

New Armory, Pennsylvania Department of Military Affairs
Ford City, Pennsylvania
New 24,400 sq.ft. training center with classrooms and kitchen/dining facilities and maintenance shop

911th Airlift Wing, U.S. Air Force Reserve
Greater Pittsburgh International Airport
Coraopolis, Pennsylvania
Various projects under two IDCs including:
– *Repairs and alterations to gas station and vehicle wash addition, Building 322*
– *Repairs and alterations to Base Exchange, Building 300*

Walter Reed Army Medical Center
Chambersburg, Pennsylvania
– *Renovation and upgrade to Building 12, Provost Marshal's Facility*
– *Repair and upgrade of the main steam distribution system from the Garrison's Steam Plant, Building 15, to the Main Hospital building, Building 2*

Dyess Air Force Base*
Abilene, Texas
– *Base Headquarters*
– *Aircraft and maintenance hangar*
– *Vehicle maintenance facility*
– *General aircraft maintenance hangar renovation*
– *80,000 sq.ft. office building renovation*

Squadron Operations, Dyess Air Force Base*
Abilene, Texas
– *HVAC replacement involving 998 units of military family housing*
– *Renovation to existing airmen's dormitory*
– *Renovations and additions to five office buildings ranging from 5,000 to 15,000 sq.ft.*

Pennsylvania Turnpike Commission
Central Administration Building
Harrisburg, Pennsylvania
New three-story addition and renovation to the Central Administration; LEED™ Certified Building

Education

Master of Science, Mechanical Engineering, University of Pittsburgh, 1995
Graduate Courses in Facilities Engineering, Air Force Institute of Technology, 1984-1987
Bachelor of Science, Mechanical Engineering, University of Pittsburgh, 1984

Experience

H.F. Lenz Company 1996 - Present
Peter F. Loftus Division, Eichleay Engineers, Inc. 1989 - 1996
Newport News Shipbuilding 1988 - 1989
U.S. Air Force 1984 - 1988

Professional Registration / Certification

Licensed Professional Engineer in Pennsylvania • LEED™ Accredited Professional • Adjunct Assistant Professor for the University of Pittsburgh at Johnstown in HVAC Design for the Mechanical Engineering Technology Curriculum

Professional Affiliations

American Society of Heating, Refrigerating, and Air-Conditioning Engineers; APPA
U.S. Green Buildings Council



Mr. Mulhollen is experienced in the design of power distribution systems, control systems, emergency power systems, lighting and emergency lighting systems, fire alarm systems, security, sound, and telecommunication systems for correctional, educational, institutional, industrial, health care, and commercial facilities. Mr. Mulhollen's project experience includes (*indicates prior experience):

Letterkenny Army Depot
Chambersburg, Pennsylvania
Various projects under several IDCs including:
– *Building 350 – Vehicle maintenance building lighting and fire alarm system replacement (350,000 sq.ft)*
– *Defense Data Center, Bldg 3*
– *Warehouse Building, Bldg 7*
– *Missile Maintenance Building, Bldg 370*
– *ATACMS Missile Assembly Facility, Bldg 3810*
– *Building 521 Addition*
– *Commanding Officer's Residence, Bldg 505*
– *Hazardous materials storage building*
– *Battery shop addition*

U.S. Air Force – 911th Airlift Group
Corapolis, Pennsylvania
Various projects under two IDCs

Department of Treasury*
New Troop "C" Headquarters
Trenton, New Jersey
New 85,000 sq.ft. police barracks with training areas, administration areas, car maintenance area, dispatch area, and holding cells

Allegheny County 911 Center*
Allegheny County, Pennsylvania
New 911 center consisting of 60,000 sq.ft. of administration space and 3,500 sq.ft. of data center space

Westmoreland County 911 Center*
Westmoreland County, Pennsylvania
New 25,000 sq.ft. center consisting of computer and administration space

Naval Surface Warfare Center*
West Bethesda, Maryland
Building 5 electrical distribution upgrade totaling \$300,000

LaRoche College
Pittsburgh, Pennsylvania
New 60,000 sq.ft. classroom addition to the existing college center

University of Charleston
Charleston, West Virginia
New dormitory building

Pennsylvania Turnpike Commission
Central Administration Building
Harrisburg, Pennsylvania
New three-story addition and renovation to the Central Administration Building including parking lot and exterior building lighting; LEED™ Certified Building

Anthony Juvenile Correctional Center*
Neola, West Virginia
Electrical design of correctional facility

Education

Bachelor of Science, Electrical Engineering, 1988
Pennsylvania State University, University Park, Pennsylvania

Experience

H.F. Lenz Company 1999
L. Robert Kimball & Associates 1996 – 1999
Leach Wallace Associates, Inc. 1990 - 1996
E.A. Mueller, Inc. 1988 - 1990

Professional Registration / Certification

Licensed Professional Engineer in Pennsylvania • Alabama • Florida • Maryland • Missouri • New Jersey • New Mexico • Ohio • Tennessee

Professional Affiliations

Institute of Electrical and Electronics Engineers, Inc.



Mr. Rummel has designed complete plumbing and fire protection systems for colleges, schools, office buildings, hospitals, prisons, laboratories, industrial facilities, and military installations. He is fully knowledgeable of NFPA codes and is experienced in the design of wet, dry, preaction, FM200, and deluge fire protection systems. He is responsible for plumbing and sprinkler system design, layout, and calculations; selection and sizing of equipment; cost estimates; and site survey work. Mr. Rummel supervises drafting personnel; coordinates the plumbing design with utility companies, with other trades, and with the Project Engineer and Project Architect; and is responsible for assembling complete and accurate plumbing bid documents which meet H.F. Lenz Company standards. Mr. Rummel has been involved in the design of plumbing and fire protection systems for the following projects:

New Armory, Pennsylvania Department of
Military Affairs
Ford City, Pennsylvania
*Plumbing and fire protection design for a new
24,000 sq.ft. training facility with classrooms
and kitchen/dining facilities*

U.S. Army Reserve Aviation Facility
Johnstown, Pennsylvania
*Fire protection system design for a new
120,000 sq.ft. multi-building reserve center
with new training building including assembly
hall, classrooms, administrative areas, dining
facilities, and arms vault, and a new hangar
facility. Project included 90% design for a new
200-bed Marine Corps Reserve barracks*

U.S. Army Reserve Center
Grantsville, Maryland
*Plumbing and fire protection design for a new
15,300 sq.ft. training building with classrooms,
assembly hall, library, Comsec training area,
and weaponeer room, and 2,400 sq.ft. OMS*

U.S. Army Reserve Center
Beckley, West Virginia
*Plumbing and fire protection design for a new
300-member Reserve Center with training
building and OMS*

U.S. Army Reserve Center
Kingwood, West Virginia
*Plumbing and fire protection design for a new
100-member Reserve Center with training
building and OMS*

911th Airlift Wing, U.S. Air Force Reserve
Greater Pittsburgh International Airport
Coraopolis, Pennsylvania
– *Plumbing and fire protection system design
for a new 21,700 sq.ft. base civil engineering
building*
– *Various projects under two IDCs including:*
– *Repairs and alterations to Base
Exchange, Building 300*
– *Repairs and alterations to gas station
and vehicle wash addition, Building 322*
– *Fire suppression upgrade to Pharmacy,
Building 319*

Letterkenny Army Depot
Chambersburg, Pennsylvania
Various projects under 5 IDCs

Pennsylvania Turnpike Commission
Harrisburg, Pennsylvania
*New three-story addition and renovation to the
Central Administration Building; LEED™
Certified Building*

Education

B.S. in Mechanical Engineering Technology, 2000, Point Park College
Associate in Specialized Technology 1984, Architectural Drafting and Construction with CAD
Technology, Triangle Institute of Technology

Experience

H.F. Lenz Company 1989 - Present
Newport News Ship Building 1984 - 1989

Professional Certification

Certified in Plumbing Design, ASPE

PROFILE

Bowman Consulting provides engineering, planning, surveying, environmental, and landscape architectural services to a variety of markets, both public and private, throughout the mid-Atlantic region. It also offers particular expertise in zoning, and in land development/building regulations at the local, state and federal levels. The work of the firm includes educational, residential, commercial, retail, health care, recreational, municipal, and federal projects. Headquartered just west of Washington, D.C. in Chantilly, Virginia, Bowman Consulting has ten regional offices and over 200 employees.

Additional areas of expertise include:

- Master and Land Use Planning
- Development Feasibility Analysis
- Landscape Architecture
- Geothermal Systems & Technologies
- Zoning Entitlements
- Rezoning and Special Exception Consulting
- Design Guidelines and Development Standards
- Preliminary and Final Site Planning
- Visualization
- Phase I and Phase II Environmental Site Assessments
- Wetlands Delineation, Permitting and Mitigation
- Perennial Flow Studies
- Site and Subdivision Design
- Water Supply and Distribution
- Wastewater Collection
- Street and Highway Design
- Storm Drainage and Storm Water Management
- Construction Phase Services
- Surveying and Mapping / GPS
- Boundary Surveys
- ALTA Surveys
- Construction Stake-Out
- Condominium, Conversions with Associated Plats and Plans
- Topographic Surveys
- Resource Protection Area (RPA) Studies

Bowman Consulting has LEED AP engineers on staff and has been involved with many projects, from schools to office buildings, that have received every level of LEED certification.

Bowman Consulting's clients benefit from a balance of deep resources, often associated with large firms, and the flexibility and quick response associated with smaller boutique firms. Our geographic footprint --- VA, WV, DE, MD, and the District of Columbia -- results in the regional jurisdictional knowledge that our clients need to move projects through intricate approval processes.

Since the company's inception in 1995, we have enjoyed sustainable growth and strength that are practically unrivaled in the industry. This growth provides professional opportunities for our staff and dedicates remarkable resources to projects of any size. Bowman Consulting's progressive culture attracts the industry's best and brightest people. Our focus, however, has remained on our clients and on providing them with high-quality, innovative, cost-effective, and efficient solutions to site and design challenges. From personnel to technology, we continue to offer and provide the best resources available in the industry.

Bowman Consulting has attracted local and national recognition, recently winning a 2009 Fairfax County Tree Conservation Award, and the 2008 Helios Apollo Award for a Mid-Sized Company. Recognition has also come from *The Washington Business Journal* (Fastest Growing Companies, 2003/2004), *ENR Magazine* (Top 500 Design Firms, 2005), *Virginia Business Magazine* (List of Leaders, 2005), *The Zweig Letter* (The Hot Firm List of U.S. A/E/P & Environmental Consulting Firms, 2008), *Inc. Magazine* (Top 500 Engineering Firms, 2000) and the Virginia Chamber of Commerce (The 2004 Fantastic 50 Award Program).

**MICHAEL P.
POINTER, A.S.L.A.**

Principal-in-Charge

Mr. Pointer brings over 22 years of planning and civil engineering experience in all aspects of land development with numerous commercial, residential and municipal projects in Loudoun County, Fairfax County, Prince William County Virginia, Frederick County, Warren County, Shenandoah County and numerous towns throughout Virginia.

He is responsible for concept development planning for rezoning applications and special use permits, and master plans through detailed subdivision site planning and construction plans and profiles. As Branch Manager for the Winchester office, he oversees planning, engineering, and surveying services in the City of Winchester, Clarke and Frederick Counties, Virginia and points west.

PROFESSIONAL EDUCATION

Bachelor of Science, Landscape Architecture,
West Virginia University, 1986

PROFESSIONAL REGISTRATION

Certified Landscape Architect, Virginia

**PROFESSIONAL AFFILIATIONS/
ACTIVITIES**

American Society of Landscape Architects
(ASLA)

REPRESENTATIVE PROJECTS**JEFFERSON MEMORIAL HOSPITAL, JEFFERSON COUNTY, WV**

Principal-in-Charge of annexation, rezoning, and schematic plans for the future site of this new hospital facility. To date, an ALTA survey and topographic mapping with GPS controls have been performed. In addition, preliminary grading and drainage plans, preliminary water and sewer plans, preliminary stormwater management plans and infrastructure planning for access to the hospital site have been completed.

CITY HOSPITAL OF MARTINSBURG, MARTINSBURG, WV

Principal-in-Charge contracted with the West Virginia University Hospitals-East (WVUH-E) to assess alternative access points to the existing facility including possible improvements to Dry Run Road, the main access road to the hospital. Services included topographic mapping, utility locating, hospital expansion planning, and campus master planning.

LIBERTY RUN, BERKELEY COUNTY, WV

Principal-in-Charge for this expansive 3410-lot community, including detached and attached homes. Services provided included the preparation of a separate site plan for a required pump station for the site. Plan consisted of over 2-miles of force main, and was processed through Berkeley County Public Service Sewer District and then through the State's Health and Human Resources Department.

BERKELEY BUSINESS CENTER, BERKELEY COUNTY, WV

Served as Principal-in-Charge for this redevelopment project. Project consisted of transforming existing 400,000 sq. ft. building warehouse truck center.

MARTINSBURG MOTORSPORTS, MARTINSBURG, WV

Served as Principal-in-Charge for this redevelopment and building expansion. Services included processing a setback waiver through issuance and designing a development unit plan.

WINCHESTER GREEN CIRCLE, CITY OF WINCHESTER, VA

Principal-in-Charge for the development of the Winchester Green Circle Project, a walking and biking trail following Town Run and Abrams Creek, encircling the City of Winchester. The project provides safe bike and pedestrian facilities for the entire community. Bowman Consulting assisted in the development and implementation of two bio-retention facilities, including an innovative rain garden, to reduce stormwater run-off on the site. The facilities when complete will be the first ever installed in the City. Services for the rain garden include performing a topographical survey to establish the location of exiting trees throughout the site and to establish a site for the facility.

MARK BAKER, RLA, CLA

Director of Planning

As Director of Land Planning, Mr. Baker oversees a team of certified land planners, and landscape architects and various sub-consultants associated with his projects. He guides his team in the project management, strategic planning, plan production, and processing of zoning applications, pre-engineering feasibility, site analysis, and land use planning for both public and private sector projects.

Mr. Baker has over 26 years of experience in landscape architecture and construction, of which, 21 years is specific to land use planning, urban design, and land development projects. His experience spans the Northern Virginia region, as well as Washington DC, Frederick County, Rappahannock County, the City of Winchester, and portions of West Virginia.

PROFESSIONAL EDUCATION

Bachelor of Science, Virginia Polytechnic Institute and State University, 1982

PROFESSIONAL REGISTRATION

Council of Landscape Architectural Registration Boards (CLARB) certification
Certified Landscape Architect, Virginia
Registered Landscape Architect, Maryland
Registered Landscape Architect, West Virginia (pending)

PROFESSIONAL ACTIVITIES / AFFILIATIONS

Engineers and Surveyors Institute (ESI)
Member of Urban Land Institute (ULI)
Loudoun County Chamber of Commerce

REPRESENTATIVE PROJECTS

O'CONNOR HIGH SCHOOL SITE, LEESBURG, VA

Responsible for project management and strategy assistance for requesting a Boundary Line Adjustment to incorporate the site into the Town of Leesburg, current with the site plan process. Oversaw the preparation of restoration measures for the existing on-site stream, and sustainable treatment methods for storm water management and surface runoff. Managed the preparation of materials and provided input to the client for strategies in public presentations and meetings with public officials.

Client: Loudoun County Public Schools

LENAH HIGH SCHOOL AND MIDDLE SCHOOL SITE – LOUDOUN COUNTY, VA

Responsible for project management of zoning phase of the project, to include initial development feasibility based on site constraints, including the design of a schematic layout, special exception, commission permit, and assist in the response to various referral agencies, sub-consultants, preparation and presentations in public meetings. This particular campus consists of a middle school and high school, as well as the accompanying athletics program.

Client: Loudoun County Public Schools

ARCOLA BOULEVARD, LOUDOUN COUNTY, VA

Arcola Center is a planned mixed-use development on approximately 400-acres. Mr. Baker was involved with this project during the rezoning phase, managing all necessary planning and engineering documents, and working closely with project stakeholders and local municipal representatives to develop the approach for the rezoning package. This rezoning plan illustrated the proposed development's conceptual layout, land uses and densities, right-of-way dedication and transportation improvements, pedestrian sidewalk and trail network, landscape treatments and buffers, open space areas and recreation facilities, and a park-and-ride facility with 200 spaces and a bus shelter for public use.

Client: Buchanan Companies, Russ Gestl and Bob Buchanan

TAKOMA PARK METRO, TAKOMA PARK, MD

This "live-work" townhome community will be developed on approximately 1.4 acres of space currently utilized as surface parking for the Metro station. The project will construct a parking garage to replace the existing surface spaces, introduce off-street parking spaces for the townhouse residents and improve current kiss-and-ride and bus operations. Mr. Baker was involved in the initial concept design and feasibility studies to determine location and circulation for WMATA facilities, parking and overall site concept for the proposed residential component.

Client: EYA, Inc.

OPEN-END ATHLETIC-IRRIGATION DESIGN CONTRACT, FAIRFAX COUNTY PARK AUTHORITY, VA

As Project Manager for this open-ended contract, Mr. Baker oversaw the following: Burke Lake Golf Course Redevelopment and Maintenance, Grist Mill Park Athletic Field Renovations and Irrigation, Muddy Hole Farm Park Multi-Purpose Court and Related Improvements, and Fairfax County Park Authority Open-End Trail Design Contract, Ossian Hall Park, and Group Irrigation Design Construction Documents

J.W. CODY FRANCIS, P.E.

Project Manager

With over 12 years of experience, Mr. Francis has a solid background in civil engineering and project management. His experience covers the final design of roads, the development of site plans and floodplain studies, Best Management Practices, and the design of stormwater management systems. Additionally, Cody has extensive jurisdictional knowledge of Loudoun County and its surrounding areas.

PROFESSIONAL EDUCATION

Bachelor of Science, Civil Engineering,
Brigham Young University, 1995

PROFESSIONAL REGISTRATION

Professional Engineer, West Virginia

REPRESENTATIVE PROJECTS

BERKELEY BUSINESS PARK, BERKELEY COUNTY, WV

Director of Engineering for this three phase redevelopment project consisting of transforming the former Corning Glass Facility, an existing 400,000 sq. ft. facility, into a warehouse distribution center, and developing 90,000sf of retail/office space along the Route 11 frontage of the business park.

PRINCETON SHOALS, BERKELEY COUNTY, WV

Director of Engineering for this 250-lot single-family detached subdivision in Berkeley County. Full construction plans for streets and stormwater management were provided, and extensive coordination with adjacent properties was required.

MARTINSBURG PUBLIC SAFETY CENTER, MARTINSBURG, WV

Director of Engineering for the construction of a new police/fire/EMS building. Scope of services included feasibility studies on three different parcels, a concept grading plan, site plan, and associated stormwater management design, water system analysis, and stormwater pollution prevention plan. Surveying included GPS horizontal and vertical control, boundary, field run topography, and location of utilities.

WVUH-EAST CITY HOSPITAL, MARTINSBURG, WV

Director of Engineering for general consulting services contract with WVUH-E. Services include topographic mapping, utility locating and mapping, city hospital parking and facilities expansions, analysis of existing traffic patterns, and engineering improvements to entrances and stormwater management design. Also contracted with the architects chosen to prepare campus facility assessment and expansion master planning.

ERIC S. MESKE, P.E.

Project Engineer

With over five years of experience, Mr. Meske has worked on the design and construction of roadway, utility, and site development projects. His experience covers the preparation of construction plans and cost estimates, design of sediment and erosion control plans, site grading, storm sewer design, development of right of way plans, and preparation of feasibility studies.

PROFESSIONAL EDUCATION

Bachelor of Science, Civil Engineering
West Virginia University Institute of Technology,
2002

PROFESSIONAL REGISTRATION

Professional Engineer, West Virginia

REPRESENTATIVE PROJECTS

BERKELEY BUSINESS PARK, BERKELEY COUNTY, WV

Project Manager for this three phase redevelopment project consisting of transforming the former Corning Glass Facility, an existing 400,000 sq. ft. facility, into a warehouse distribution center, and developing 90,000sf of retail/office space along the Route 11 frontage of the business park.

SOUTH BERKELEY PHARMACY, INWOOD, BERKELEY COUNTY, WV

Project Manager for the completion of a site plan for the addition of a drive-through lane and parking at an existing pharmacy building located in the Mill Creek District of Berkeley County. Scope of services included surveying and engineering.

ORCHARD MILL, BERKELEY COUNTY, WV

Project Engineer responsible for the preparation of a sketch plat for this 1,100-acre development. The proposed layout includes 4,300 homes, a 400,000 s.f. shopping center, and a 200,000 s.f. office park.

ROUTE 50 ASSISTED LIVING FACILITY, FREDERICK COUNTY, VA

Project Manager for the feasibility study and site plans for this proposed 84-bed assisted living facility of 78,000 s.f. situated on 10 acres along Route 50 in Frederick County, VA. This project has rezoning, comprehensive plan amendment and site plans tracking concurrently.

VALLEY WELL DRILLING, CLARK COUNTY, VA

Project Engineer for this proposed commercial development consisting of a 7,500 s.f. maintenance building, a 2,400 s.f. office building, and a 100' by 100' outdoor storage area. Responsible for designing the site plan and road frontage improvements. Also provided site grading and prepared run-off computations.

DAVID T. FRANKENFIELD, L.S.

Director of Surveys

With over 19 years of surveying experience, Mr. Frankenfield is an expert in survey software, including AutoCAD, CMLSE, and SDC. In addition, he contributed significantly to the establishment of Bowman Consulting's survey department software standards. Mr. Frankenfield's primary duties include quality control of field crew work, management of the day-to-day department operations, and oversight of survey work conformance with both industry and company standards.

Mr. Frankenfield's experience includes boundary surveys, ALTA surveys, horizontal position sheets, wetland locations, subdivisions, locations for utilities, cut sheets, metes and bounds descriptions, easement plats, record plats, house location surveys, and deed and document research.

PROFESSIONAL EDUCATION

Associate of Applied Science, Civil Engineering,
Northern Virginia Community College, 1987

PROFESSIONAL REGISTRATION

Licensed Land Surveyor, West Virginia

REPRESENTATIVE PROJECTS

CITY HOSPITAL OF MARTINSBURG, MARTINSBURG, WV

Director of Surveys for general consulting contract with the West Virginia University Hospitals – East (WVUH-E) to assess alternative access points to the existing facility including possible improvements to Dry Run Road, the main access road to the hospital, and the possible expansion of the medical campus. Extensive utility locating was completed.

JEFFERSON MEMORIAL HOSPITAL, CITY OF CHARLESTOWN, WV

Director of Surveys for ALTA surveys and topographic mapping with GPS control.

WINEBRENNER'S CROSSING, BERKELEY COUNTY, WV

Director of Surveys for this 961-lot subdivision community on over 300-acres. Scope of services provided include civil engineering, planning, surveying and environmental sciences. Extensive coordination was required with geotechnical engineers and the Department of Environmental Protection to remediate sink holes found on-site.

LIBERTY RUN, PHASE 1, BERKELEY COUNTY, WV

Project comprised of 48 townhouse lots, 43 single family detached lots and a 10,000 l.f. sanitary sewer force main. The water and sewer services comprised of 5,533 l.f. of water main and 3,558 l.f. of sanitary sewer. Director of Surveys in charge of stakeout for construction of all infrastructure and utilities per the approved plans and to as-built plans at the completion of the project to Berkeley County and to the Berkeley County Public Service Water District and Sewer District.

COURTLANDS RURAL VILLAGE, LOUDOUN, VA.

Responsible for 3 sections of platting responsibilities over 20 street dedication plats and easement plats.

LOUDOUN COUNTY SANITATION AUTHORITY, THE CITY OF LEESBURG SANITARY SEWER FACILITY, & THE LOUDOUN COUNTY LANDFILL, LOUDOUN, VA

Project Surveyor for multiple county and municipal projects.

UNITED STATES SECRET SERVICE, WASHINGTON, D.C.

Project Surveyor for various highly sensitive jobs.

167TH WEST VIRGINIA AIR NATIONAL GUARD SQUADRON OPERATION FACILITY

Martinsburg, West Virginia

Bowman Consulting contracted with W. Harley Miller Contractors, Inc. to provide construction stake-out surveying services for the 167th WVANG Squadron Operations Building located at Shepherd Field in Martinsburg West Virginia. Scope of work consisted of stake and flag construction limits and construction stake-out for the following: sanitary sewers and laterals, storm sewer, watermains, services and fire lines, building – columns, and foundation brickpoints.

CLIENT

W. Harley Miller Contractors, Inc.
P.O. Box 945
Martinsburg, West Virginia 25402
Contact: Tripp Dailey
(304) 267-8959

ARCHER'S ROCK

Martinsburg, West Virginia

Archer's Rock is the largest residential community in Berkeley County, and the first with traditional curb and gutter designs.

Bowman Consulting was contracted to provide land planning and engineering for the first section consisting of 117 lots. The project also includes a landscaped boulevard entrance with two stormwater management ponds and a five-acre community center site.

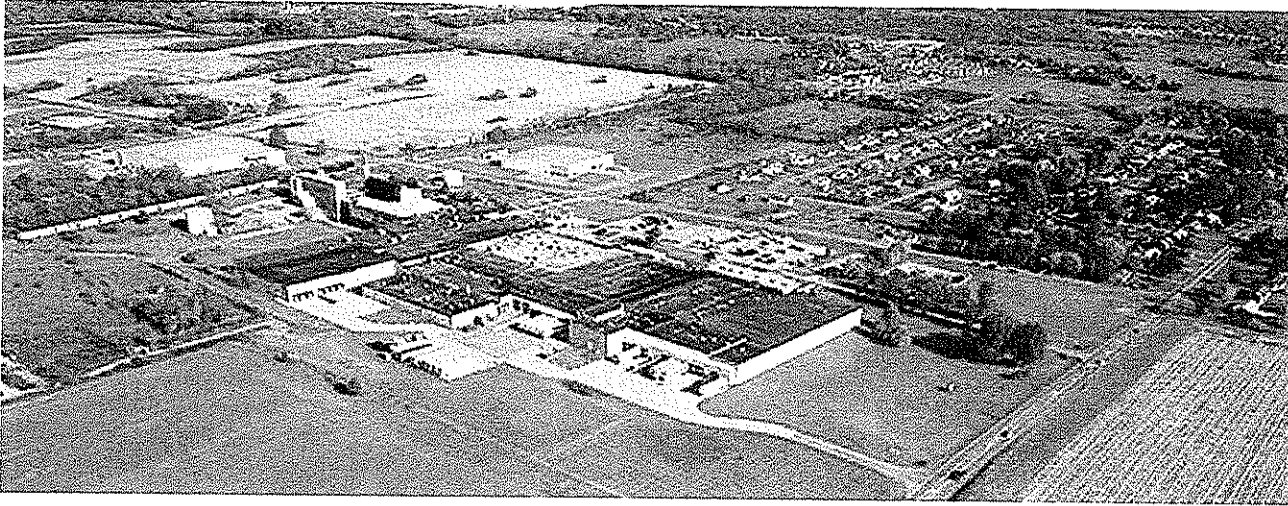
Throughout the project, Bowman Consulting was faced with a series of design challenges. The initial project site was riddled with karst topography, a condition in which there is a lack of surface water and progressive erosion leading to sinkholes. As a result, sensitive planning was required to avoid potential hazards on the site. Additionally, arsenic was found within the soil, requiring additional coordination with project officials and local jurisdictions to facilitate remediation work.

FEATURES

- » 519-lot subdivision
- » 187-acres
- » Land plan accommodates 120 town homes and the balance as single family lots.

CLIENT

Crowne Pointe
671 Ropp Drive
Martinsburg, WV 25401
Contact: Bruce Sperow
(304) 274-1931



BERKELEY BUSINESS PARK

Berkeley County, West Virginia

In 2003, the former 427,000sf Corning/World Kitchen manufacturing facility was purchased with the hopes of transforming the abandoned site into a thriving warehouse truck center. With the help of Bowman Consulting's services, the site is undergoing a multi-phase redevelopment.

Phase I of the project consisted of the addition of a truck loading area to the existing building, requiring engineering and surveying services. A Land Development Unit (LDU) plan was designed along with layouts for stormwater and sanitary sewers. Survey services included an as-built survey of the existing utilities, a boundary verification, and topographic aerial and field surveys. Due to the redevelopment of the site, a small bioretention facility was also designed to provide an outlet for run-off from the new truck loading area.

Phase II and III of the project continued of the conversion of the remainder of the existing building into warehouse space, with two new loading docks. Bowman Consulting prepared a LDU plan for the building. In addition, all of the site's parking and entrances were analyzed and 10% of the impervious area was eliminated to meet stormwater management (SWM) requirements.

The elimination of the parking areas and reduction of paved areas, increased the amount of grass areas on the site which will ultimately decrease the amount of run-off produced in the future.

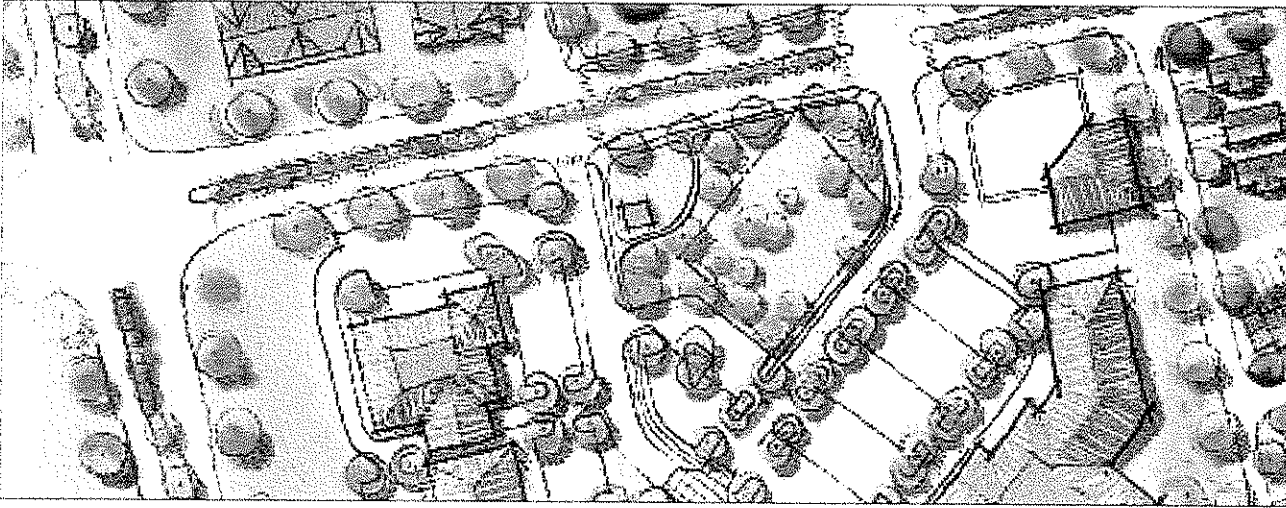
Bowman Consulting is processing plans for the development of 90,000sf of retail/office space in an adjacent vacant area of the site. These plans include a LDU and stormwater, sanitary and utilities layouts. Plans are also being processed through the West Virginia Department of Highways for the addition of right and left turn lanes into the business park.

FEATURES

- Redevelopment of 427,000 s.f. building
- Bioretention facility

CLIENT

Howard Shockey & Sons, Inc.
P.O. Box 2530
Winchester, Virginia 22604
Contact: Ralph Shockey
(540) 665-3212



CHARLES POINTE

Bridgeport, West Virginia

The Charles Pointe master-planned community introduces the concept of planned development zoning to Central West Virginia. Bowman Consulting's services included preliminary land planning to determine infrastructure demands and to establish design guidelines for a mixed-use community. Planning for a corporate office and highway business district, as well as for a traditional town center district, will allow for over 2 million square feet of commercial tax base development to include golf courses, schools, and significant athletic facilities.

FEATURES

- » 1,200 units
- » 1,500-acres

CLIENT

Genesis Partners
1509 Johnson Avenue
Bridgeport, West Virginia 26330
Contact: Robert Stuart
(304) 842-0880

LIBERTY RUN

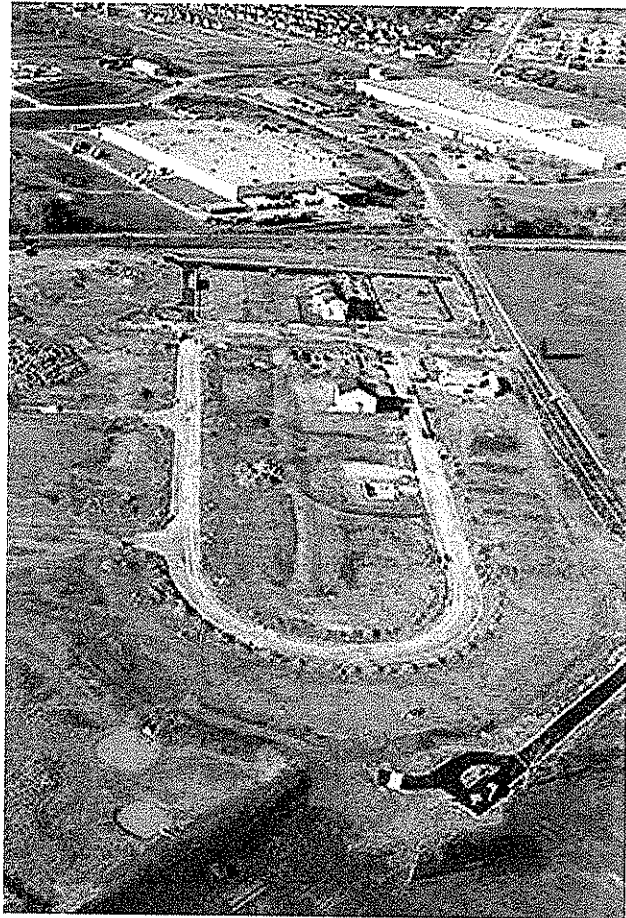
Berkeley County, West Virginia

Liberty Run is an 88-acre planned community in Berkeley County, West Virginia, made up of single family detached and attached homes.

Bowman Consulting provided engineering and planning services to this new community. Scope of services began with the conversion of the existing neo-traditional lay-out into a traditional lay-out. This conversion required the elimination of rear load product and alleys to convert to a traditional front load product. The client's product also called for a much wider lot than what had been planned for the neo-traditional layout. This was accomplished by Bowman Consulting's planning department while not losing density for the project.

A preliminary plan was developed along with layouts for storm and sanitary sewers, water and dry utilities. The project was developed in two phases and the plans were processed through the Berkeley County Planning and Engineering Departments. Once approved by planning and engineering, it was presented at a public hearing to the Berkeley County Planning Commission where the plan received praise for working with the local historian to preserve a family cemetery and document, with historic markers, the individuals buried in the cemetery and their significance to the community. The Planning Commission also applauded the efforts to conduct citizens meetings to keep surrounding land owners aware and informed about the project, alleviating their concerns. The Planning Commission unanimously approved the plan.

A separate site plan was prepared for a required pump station for the site. The plan consisted of over 2-miles of force main and was processed through Berkeley County Public Service Sewer District and then through the State's Health and Human Resources Department.



Work continued with construction plans and profiles to redesign the property's frontage road, Baker Lane. The roadway was converted from shoulder and ditch design to curb and gutter, while right and left turn lanes into the community were established.

FEATURES

- » 88-acre site
- » 341-lot, single family detached and attached homes

CLIENT

K Hovnanian Homes, Inc.
4090-A Lafayette Center Drive
Chantilly, Virginia 20151
Contact: Adarah Askin
(703) 885-7179

MARTINSBURG MOTORSPORTS

Martinsburg, West Virginia

In 1999, Martinsburg Motorsports opened its doors and quickly out grew its showroom. In 2005, Bowman Consulting assisted with the expansion of the existing facility to more than double its size. In order to proceed with the project, a waiver was required for the set back of the building because of the small lot size constraint. Bowman Consulting processed this waiver through the Berkeley County Planning Commission and saw it through issuance.

Once the waiver was obtained, Bowman Consulting prepared a Land Development Unit plan to expand the facility by over 1,000 square feet. The plan was further constrained by the fact that the new impervious area required stormwater management (SWM), but due to the size of the parcel, this was not practical. To remedy the situation, Bowman Consulting was able to work with both the County and the developer to come up with a compromise where approximately 10% of the existing impervious area was converted to grass to relieve the developer of SWM requirements. This plan was approved, processed through the Berkeley County Planning and Engineering Departments, and approved at a public hearing by the Berkeley County Planning Commission.

FEATURES

- » Approximately 1,000 s.f. of showroom space
- » .6-acre site

CLIENT

Jim Myers
100 Myersons Drive
Winchester, Virginia 22602
(540) 667-1893

CHARLES POINTE - NORTH LAND BAY PHASE I INFRASTRUCTURE

Bridgeport, West Virginia

The North Land Bay consists of 156-acres of the 1700-acre master planned community at Charles Pointe. The ultimate buildout of the North Land Bay consists of residences consisting of townhouses, duplexes, apartments and condominiums, commercial and retail development and office use.

Bowman Consulting provided the land planning, civil engineering and landscape architecture services for the preparation of the Phase I infrastructure plans. Approximately 7,500 feet of two and four lane curb and gutter roadways were designed.

A domestic water system was also designed to provide water for the future development of the land bay by tying into the City of Bridgeport's existing system. A water supply network model was prepared to model the existing system, as well as the future one million gallon water tank.

Additionally, a sanitary sewer study was performed to establish how much development could take place by using the existing sanitary sewer outfall in existing Route 131. A phasing plan was developed to determine when a pump station would be required to divert the remaining flows to a different outfall.

Stormwater management of the run-off for quantity and quality was performed for the ultimate buildout of the site. Two existing ponds were retrofitted and one new pond was proposed. These ponds were designed to exceed the state and local requirements for stormwater quality and quantity.

FEATURES

- » 335 residential units
- » 197,500 square feet of commercial and retail
- » 435,000 square feet of office use
- » 156-acres

CLIENT

Genesis Partners
1509 Johnson Avenue
Bridgeport, West Virginia 26330
Contact: Robert Stuart
(304) 842-0880

WEST VIRGINIA UNIVERSITY HOSPITALS – EAST

Jefferson Memorial Hospital, Medical Office Building Addition/ Renovations
Ranson, West Virginia

This project entails the computation of a boundary survey and as-built plans of the existing facility, and an analysis of the expansion potential to create more medical office space for Jefferson Memorial Hospital (JMH). Scope of services included geometric layouts of the proposed building addition and coordination of all utilities to accommodate the new building design. This work is part of other improvements planned by West Virginia University Hospitals-East (WVUH-E) for the existing Jefferson Memorial Hospital facility.

FEATURES

- » Existing building within the existing 6-acre JMH facility space

CLIENT

West Virginia University Hospitals-East
2000 Foundation Way , Suite 2310
Martinsburg, West Virginia
Contact: Roger Eitelman, President and CEO
(304) 260-1486

WEST VIRGINIA UNIVERSITY HOSPITALS – EAST

Martinsburg City Hospital
Martinsburg, West Virginia

Bowman Consulting is providing planning, surveying and engineering services and consultation to West Virginia University Hospitals-East (WVUH-E), to assess ways to improve access to the hospital and help alleviate traffic congestion on Dry Run Road at the main entrance. Additionally, Bowman Consulting is compiling base mapping around the existing hospital site to begin addressing the overall facility master planning objectives of the WVUH-E.

CLIENT

West Virginia University Hospitals-East
2000 Foundation Way , Suite 2310
Martinsburg, West Virginia
Contact: Roger Eitelman, President and CEO
(304) 260-1486

FEATURES

- » Existing 260-bed hospital with medical office buildings on-site
- » Expansion plans for the emergency and intensive care units as well as the addition of a 2-story office building and master planning to expand the medical campus

PRINCETON DESIGN, PLLC PROJECT APPROACH

Following selection of Princeton as the preferred designer, we would want to arrange a kick-off meeting with the Guard's designated representatives and our complete design team, headed by Mr. LaRock, to review in detail the Guard's objectives for the project, including programming, budget, schedule, and other matters. At the same time, we would conduct an assessment of the existing conditions and surrounding environment and begin to formulate ideas while understanding constraints.

We would quickly move into concept design, which would be used as a starting point for the Guard's review. It is important during this phase to ensure space programming is set in the proper direction, any major concerns over site constraints are addressed, and that an initial budget estimate based on the concept design is within the project's budget parameters.

Communication is critical to the success of projects of this nature. We recommend regular progress meetings be held on site or at the Guard's headquarters office to make certain everyone is informed on design decisions and that the project is on the right track.

Following mutual agreement on the concept design, we would move into schematic design, design development, and construction documents. Prior to starting on a new design phase, we would ensure the Guard's representatives are satisfied that the project's objectives are being met.

It is our design team's preference to be actively involved during the construction phase as a resource and to monitor contractors' work. We will be prepared to assist in this manner as best determined by the Guard and the State.