



Letter
of
Transmittal

Date: December 3, 2008 Omni Project # _____ Project Name: William J. Sharpe, Jr. Hospital

To: _____
Roberta Wagner
WV Purchasing Division
2019 Washington St. E.
Charleston, WV 25305-0130

For Your...

Use Approval Record Bid Due _____

The Following ...

Drawings Change Order Specifications
 Contract Application for Payment Electronic Media (Disk/ CD/ Other)
 Shop Drawings Proposal <specify other>

Enclosures

Ref. #	Total Each	Description
1	4	Response to RFQ No. WSH90086 (1 original and 3 copies)
2		
3		
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FAIRMONT WV 26554-2175

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2008 DEC -4 A 9:33

PURCHASING DIVISION
STATE OF WV

Remarks:

If enclosures are not as noted, please inform us immediately.

The Omni Associates – Architects, Inc.
1543 Fairmont Avenue, Suite 201
Fairmont, West Virginia 26554-2175

Issued By:

Angela Hammond (Voice) 304.367.1417

cc:

The Omni Associates – Architects
1543 Fairmont Avenue Suite 201
Fairmont, WV 26554-2175
(Voice) 304.367.1417
(Facsimile) 304.367.1418

www.omniassociates.com

Established 1980

Member of
The American Institute of
Architects

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

VENDOR OWING A DEBT TO THE STATE:

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

PUBLIC IMPROVEMENT CONTRACTS & DRUG-FREE WORKPLACE ACT:

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

ANTITRUST:

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

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

LICENSING:

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

CONFIDENTIALITY:

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

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

Vendor's Name: OMNI ASSOCIATES- ARCHITECTS, INC.

Authorized Signature: John R. Sausan Date: 12/3/2008



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
 WSH90086

PAGE
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ADDRESS CORRESPONDENCE TO ATTENTION OF:
 ROBERTA WAGNER
 304-558-0067

NOV 21 2008

OMNI ASSOCIATES

VENDOR

*709051336 304-367-1417
 OMNI ASSOCIATES ARCHITECTS INC
 1543 FAIRMONT AVENUE #201
 FAIRMONT WV 26554

SHIP TO

HEALTH AND HUMAN RESOURCES
 WILLIAM R. SHARPE JR. HOSPITAL
 CENTRAL RECEIVING
 936 SHARPE HOSPITAL ROAD
 WESTON, WV
 26452 304-269-1210

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
11/19/2008				

BID OPENING DATE: 12/04/2008 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
<p style="text-align: center;">ADDENDUM NO. 2</p> <p>1. QUESTIONS AND ANSWERS 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.</p> <p>EXHIBIT 10</p> <p style="text-align: center;">REQUISITION NO.: WSH90086</p> <p>ADDENDUM ACKNOWLEDGEMENT</p> <p>I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.</p> <p>ADDENDUM NO.'S: <input checked="" type="checkbox"/> NO. 1 <input checked="" type="checkbox"/> NO. 2 NO. 3 NO. 4 NO. 5</p> <p>I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS.</p> <p>VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
TITLE	FEIN	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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 2


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<p>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;">  SIGNATURE OMNI ASSOCIATES - ARCHITECTS COMPANY 12/3/2008 DATE </p> <p>REV. 11/96</p> <p style="text-align: center;">END OF ADDENDUM NO. 2</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE

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

December 3, 2008

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

Re: Proposal for Architectural and Engineering Services
Buyer: Roberta Wagner-File 22
Req#: WSH90086
Opening Date: 12/4/2008
Opening Time: 1:30 PM

Dear Ms. Wagner:

The Omni Associates-Architects is pleased to submit our Proposal to the State of West Virginia Department of Administration for architectural and engineering design services for a new 25,000 square foot 50 bed patient care unit at the William R. Sharpe, Jr. Hospital in Weston. It is our intention to develop a lasting relationship with the West Virginia Department of Administration. We recognize the importance of this project not only to the State of West Virginia, but also to the patients, staff, and administration of the hospital, and we are dedicated to helping you realize your project on time and within budget.

The design team you select will be one that will work with you over the upcoming years. I am pleased to include **H.F. Lenz Company** as part of our specialized team. Omni has collaborated with H.F. Lenz on a number of projects in the past, most notably the **Ruby Memorial Hospital Clinical Expansion**, a \$39 Million, 180,778 square foot addition to the existing hospital that included a major addition to the existing hospital similar in nature to the William R. Sharpe, Jr. Hospital. As the lead designer, we provide a proven team that listens, produces a quality product, and provides professionalism and attention to detail from the first sketch to the completed project. We are confident that our extensive project experience together with our innovative design concepts will prove successful.

As Omni's Administrative Principal, I will guide the team and serve as the point-of-contact to the Department of Administration throughout the project's duration. We can offer your project the following advantages:

- Omni has had a working relationship with every large contractor in the area.
- Omni's extensive experience with Building Information Modeling makes us a leader in BIM. In 2006, we invested in new design technology called REVIT and made the transition from traditional CAD based software to the next generation of 3D-based production software. Ninety-five percent of the projects that Omni undertakes are completed by using information modeling.
- BIM provides more than just a drafting tool. Electronic as-built drawings in 3D and facility management models are a few of the advantages that BIM offers. Facility managers and FM applications take advantage of the consistent, coordinated building information that comes from a project produced via BIM that can be used for the life of the building as an interactive tool.
- Omni enjoys a repeat client rate of more than 90% - a source of considerable pride.

Thank you for giving us the opportunity to present our credentials. We would enjoy the opportunity to personally meet with you and the balance of the selection committee and discuss our professional experience in greater detail as well as demonstrate how we utilize BIM to greatly expedite project delivery.

Best regards,
THE OMNI ASSOCIATES - ARCHITECTS



John R. Sausen, AIA, NCARB
Principal

**William J. Sharpe Jr. Hospital:
New Patient Care Unit**

William J. Sharpe Jr. Hospital

West Virginia
Department of Administration
Purchasing Division

Buyer: Roberta Wagner -
File 22

Req#: WSH90086

Proposal

The Omni Associates – Architects, Inc.
1543 Fairmont Avenue, Suite 201
Fairmont, West Virginia 26554

Voice.304.367.1417
Facsimile.304.367.1418

Email: dave@omniassociates.com
World Wide Web: www.omniassociates.com

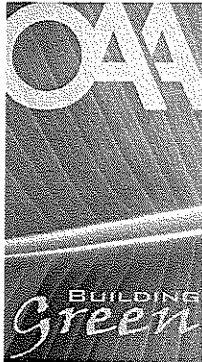


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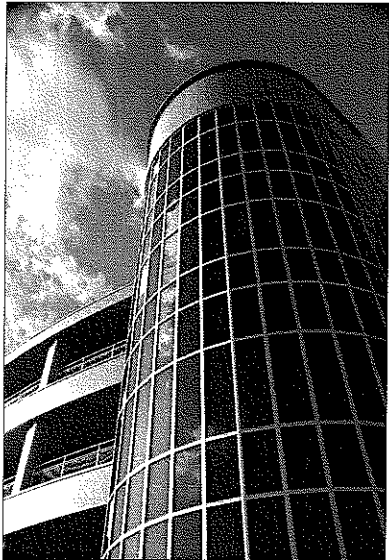
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 Building Information Modeling.....page 3-4
 Conformance with Applicable Regulations.....page 4
Building and Life Safety; LEED

Project Team Qualifications
 Contact Person and Project Team Introduction.....page 5
 Qualifications and Experience of Key Personnel.....pages 6-7
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Demonstrated Experience
 Relevant Projects.....page 9
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Based in Fairmont, our proximity to your project site allows us to be on the job site quickly to provide face-to-face coordination.



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**William J. Sharpe Jr. Hospital:
New Patient Care Unit**

Project Understanding, Approach and Plan

West Virginia
Department of Administration
Purchasing Division

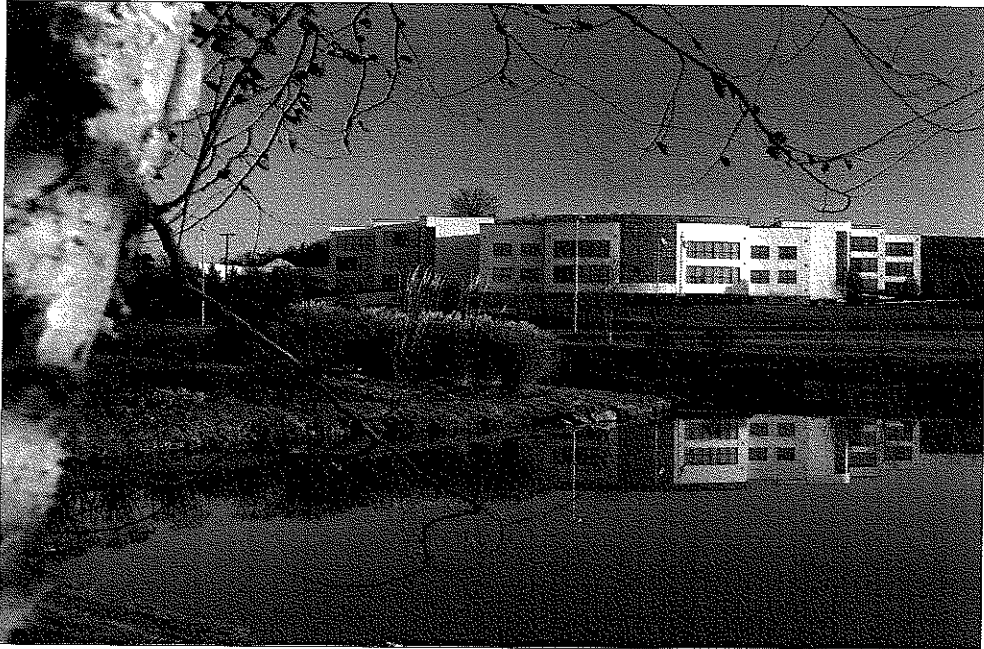
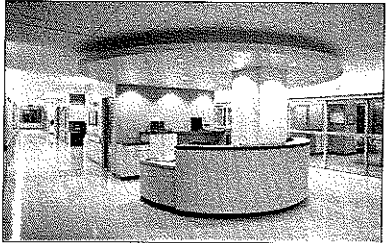
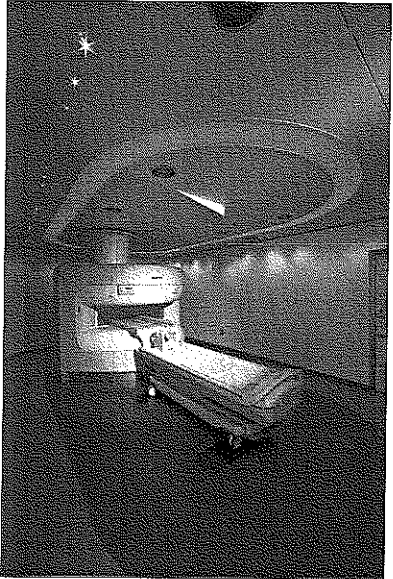
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Req#: WSH90086

The design of any great facility is derived from the aspirations, goals and limiting restraints that are involved in the evolution of the project. William R. Sharpe, Jr. Hospital has a need to employ the latest in building technologies while integrating new space with the existing facility. The resolution of these forces involves a customized design and approach to the context and program of this building.

The Omni Associates – Architects, Inc. has had a successful history of designing intimately with each client and working out collaborative solutions that meet the goals of the project. We understand that Sharpe Hospital provides care and shelter for those in need of psychiatric evaluation, consultation, and, at times, court-ordered detention. Your needs go beyond simply providing additional bed space. Your project shall be a unique design that derives from strategic planning recognizing the site context along with the design input of all the participants. The process is integral and requires close communication. To that end, we have implemented a feed-back process for every stage of a project to ensure that the program needs of the client are met and that the Contract Documents reflect the intent as well as the content of the design. Owners' representatives are not only present but heavily involved with all project meetings so that any decisions to confirm or change an owner's program needs can be addressed directly during each step of construction.

The Omni Associates - Architects provides clients with the results they value most: innovative designs consistent with the building program, cost effective designs which meet the budget, and efficient management to provide on-time deliverables and completion. We are a proven team that listens to our clients, produces a quality product, and provides professionalism and attention to detail – from the first sketch to the completed project. These are qualities that appeal to our clients and draw them back for future projects, which results in lasting relationships. That's why we enjoy a repeat client rate of more than 90% - a source of considerable pride. We're confident of our reputation and expertise, and our clients are confident that they will receive superior services.



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**William J. Sharpe Jr. Hospital:
New Patient Care Unit**

Technical Competencies

West Virginia
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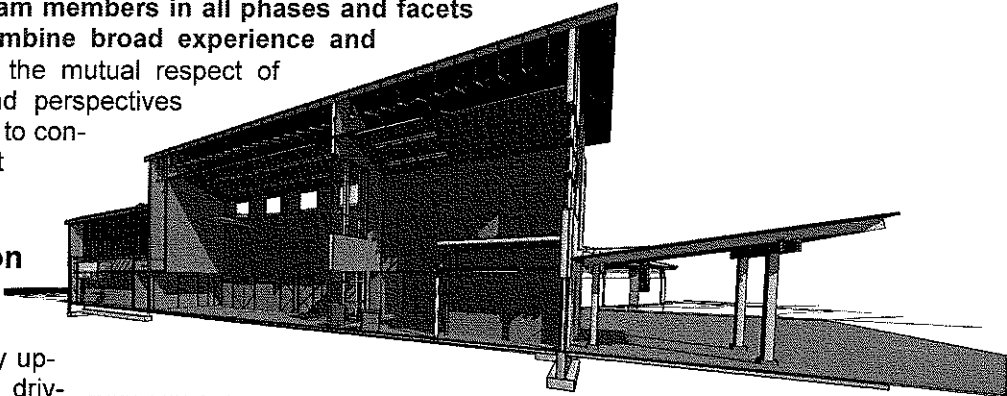
The Omni Associates – Architects, Inc. is an award-winning architectural firm located in Fairmont, West Virginia. Since its inception in 1980, OMNI has earned recognition as a specialist in the programming, planning, and design of a wide variety of facilities including healthcare facilities, commercial offices, high technology centers, education facilities, and military facilities, many of which were integrated into existing structures and required flexible designs that allowed for modification as needs change.

Omni's professional staff is comprised of dedicated, experienced, and creative individuals. Our skilled team includes **4 registered architects**, intern architects, computer-aided design specialists, a full-time in-house artist, and knowledgeable administrative support staff. Their quality, expertise, and dedication integrate to produce the solid foundation upon which Omni has built its reputation.

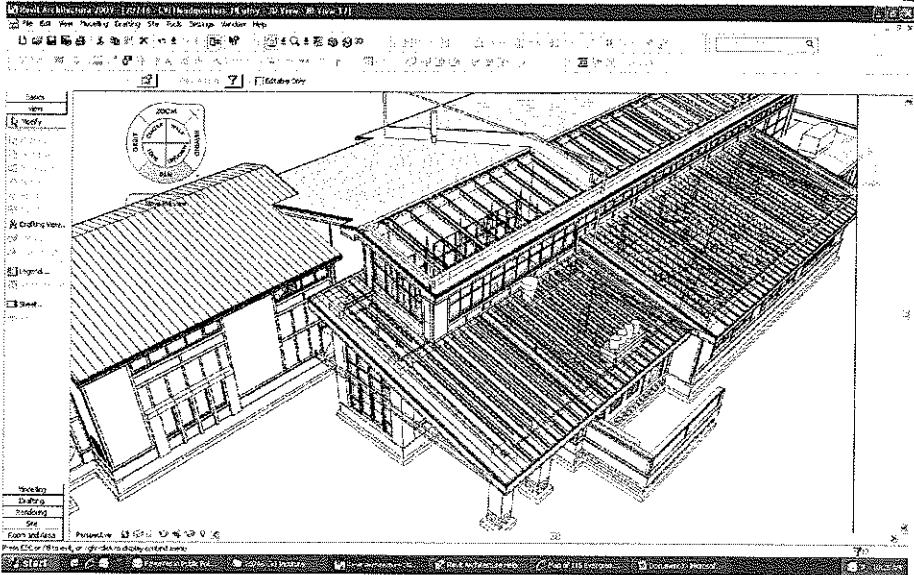
In reality, the OMNI project team goes beyond our in-house staff to include consultants, client representatives, owners, and a construction manager, as required. **The involvement of project team members in all phases and facets of a project allows us to combine broad experience and personal accountability.** It is the mutual respect of each team member's skills and perspectives that enables the design process to conclude with a successful project of which we all can be proud.

By constructing the building in the virtual world first, conflicts can be anticipated and averted.

BIM: Building Information Modeling



Omni is committed to continually upgrading existing technology and driving the evolution of design tools. This commitment springs from the firm belief that the responsible use of technology facilitates innovative design, results in economic benefits for our clients, and assists in efficient communication with clients and consultants.



Building Information Modeling (BIM) involves creating a building in the virtual world before constructing it in the "real" world and allows the design team to anticipate conflicts and objections before they arise. **We have found that this eliminates many issues which could result in project change orders or Requests For Information from the contractor.** Also, the model can be shared between all disciplines as the design progresses. This allows early input from all of the design professionals involved, resulting in efficient designs. With a virtual model of the building, clients can clearly see the design intent as the project progresses. Design options can be explored with greater ease than ever before. An accurate building model can also assist in such things as cost and quantities estimating, energy analysis and building management – to name just a few.



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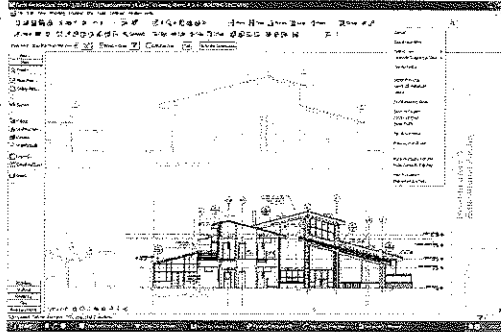
William J. Sharpe Jr. Hospital: New Patient Care Unit

West Virginia
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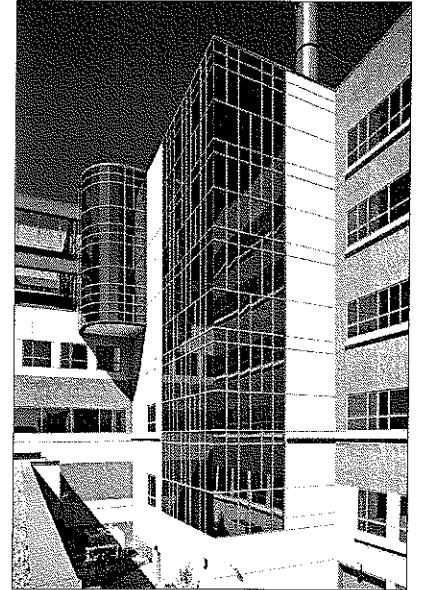
Obviously, using the latest computer software does not guarantee good design. Good design is built upon having a complete understanding of the client's needs and the knowledge & experience to create a space which addresses those needs in an elegant and practical manner. We see BIM as an advanced tool in making that goal a reality for each project that we undertake.



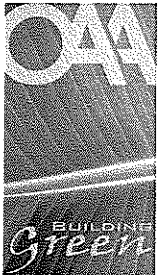
Conformance with Applicable Regulations

Building and Life Safety

West Virginia codes have a major influence on the design of any building, and having a strong interactive relationship with the WV State Fire Marshal (WVSFM) and other authorities is essential. Omni has made it a practice to have face-to-face reviews with the WVSFM, which provide valuable feedback and result in many hours saved during design and production. Since a practical understanding of the law is applied early on, the owner can be better assured that their program needs won't suffer major changes and time delays later on. Furthermore, the Fire Marshal's field inspections and approvals are better expedited since the total design layout and life safety systems are understood because they were part of the design implementation. We have also worked closely with the WV Office of Health Facility and Licensure and Certification on such projects as the Ruby Memorial Hospital Clinical Expansion, University Health Associates MRI Suite, and WVU Health Sciences Center PET/CT Renovation.



LEED™ (Leadership in Energy and Environmental Design)



Project Architect John R. Sausen is in the process of obtaining LEED™ Professional Accreditation. The LEED Green Building Rating System provides standards for environmentally sustainable construction. LEED Accredited Professionals demonstrate a thorough understanding of green building practices and principles and familiarity with LEED requirements, resources, and processes.

Omni is currently in the process of designing a new headquarters for the Canaan Valley Institute (CVI) near Davis, West Virginia. In accordance with CVI's mission, the design team is planning a "green" building that will demonstrate environmentally friendly systems to visitors. The team is planning to utilize a number of "green" technologies and anticipates Silver LEED™ Project Certification.

Omni has also recently been selected as the Architect for Allegheny Energy's new Transmission Control Center in Fairmont, West Virginia, which will incorporate LEED design features.



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**William J. Sharpe Jr. Hospital:
New Patient Care Unit**

Project Team Qualifications

Primary Contact:

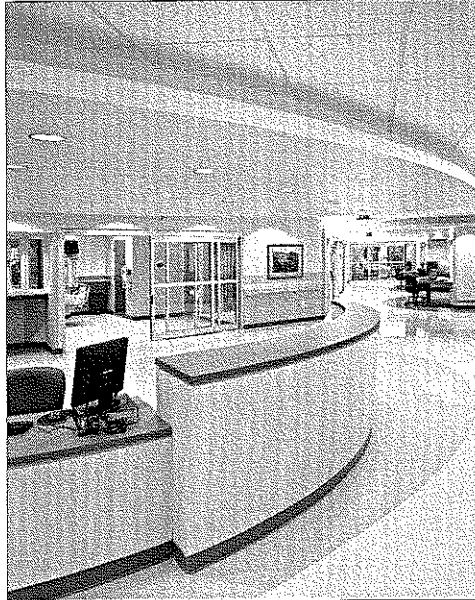
John R. Sausen will be responsible for the project and have full authority to execute a binding contract on behalf of Omni Associates.

John R. Sausen AIA, NCARB

The Omni Associates - Architects, Inc.
1543 Fairmont Avenue - Suite 201
Fairmont, WV 26554

Voice: 304.367.1417

Email: JRSOmni@aol.com



West Virginia
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Buyer: Roberta Wagner -
File 22

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"...this (West Virginia High Technology Consortium) is indeed an important economic development project for West Virginia, and I wish to thank Omni Associates for the predominant role that they played in making this endeavor, as well as many other significant projects across the state, a reality..."

Robert C. Byrd
United States Senate

Project Team Introduction

The project team that you select will be one that will work with you over the upcoming years. It is our endeavor to continue our relationship with William J. Sharpe, Jr. Hospital and users. Our dedicated and experienced staff brings a unique level of ingenuity to every project. The Omni Associates - Architects carefully selects its project team based on each member's ability to add directly-related experience, ensuring our ability to meet the specific challenges and goals of each client. Omni has created a team of professionals who provide services for the specific needs of this project.

It is these sensitivities that have dictated the creation of this team to include Omni Associates - Architects, Inc. and H.F. Lenz Company.

In order to guarantee a constant level of dedication and commitment, it is Omni's philosophy that a principal remains with the project from commencement to completion. John R. Sausen AIA, NCARB, shall serve as principal in charge. The unique opportunity that is available to you is that Omni works "hands-on" with the stakeholders of a project and has a very fluid approach to design and documentation. The advantage is that contact is immediate. This level of communication is not achieved by long-distance communications and formal meetings. Omni has a history of providing that experience to our clients. Fairmont State University, the City of Fairmont, WVU Hospitals, Mylan Pharmaceuticals and The West Virginia High Technology Consortium Foundation have selected Omni and its consultants for numerous projects and have benefited from their accessibility and "hands-on" approach. The ability to have a local connection with our design team will be a positive coalition.



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**William J. Sharpe Jr. Hospital:
New Patient Care Unit**

West Virginia
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Qualifications and Experience of Key Personnel

The following is an introduction to our proposed design team. Resumes for key personnel are provided at the end of this proposal.

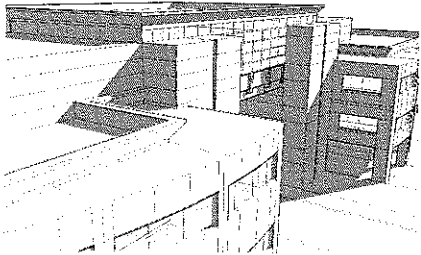
The Omni Associates – Architects, Inc.

Omni Associates will serve as the lead firm and coordinator of architectural and engineering services for William J. Sharpe, Jr. Hospital. Omni has extensive experience in the design and construction administration of health care facilities. We know that patient care is paramount, and our designs reflect that priority. We understand that a pleasant and functional environment for hospital staff is integral to providing high quality care and fostering high levels of professional conduct. Omni also has the experience necessary to provide hospital staff, patients, and visitors a safe environment during the construction process.

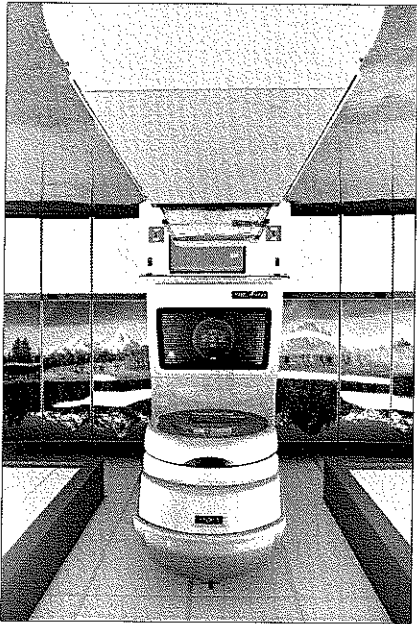
John R. Sausen AIA, NCARB—Project Architect

As a Principal-in-Charge and Project Architect, Mr. Sausen's primary responsibility is to develop the overall concept of design by performing technical tasks which include: Project space programming; Schematic layout of functional spaces; Aesthetic design and development; Concept and coordination of building systems such as mechanical, electrical, plumbing and fire protection; Preparation of bidding documents and material specifications; Project management and Construction administration.

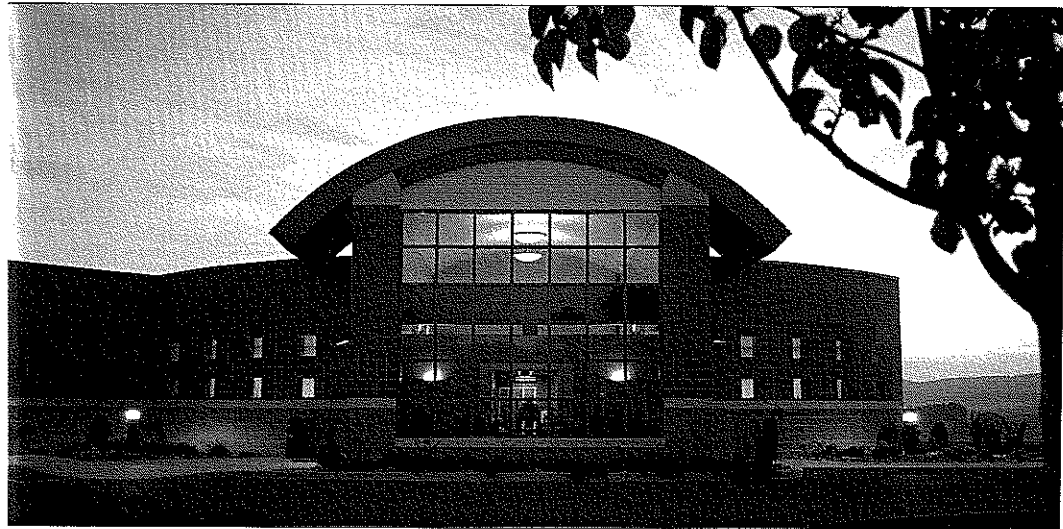
Currently, Mr. Sausen is serving as Project Architect for a Hospice a Palliative Addition to Sundale Nursing Home as well as for a first floor renovation of the WVU Health Science Center. In recent years, he has completed a number of projects for WVU Hospitals and University Health Associates, most notably a \$39 million dollar clinical expansion that included the addition of two stories to an existing structure as well as a new eight-story tower. Additionally, for the past twelve years, Mr. Sausen has served as Project Architect on a number of addition and renovation projects at Preston Memorial Hospital.



As a West Virginia-based firm, we understand that our success is based on our commitment to being responsive.



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William J. Sharpe Jr. Hospital: New Patient Care Unit

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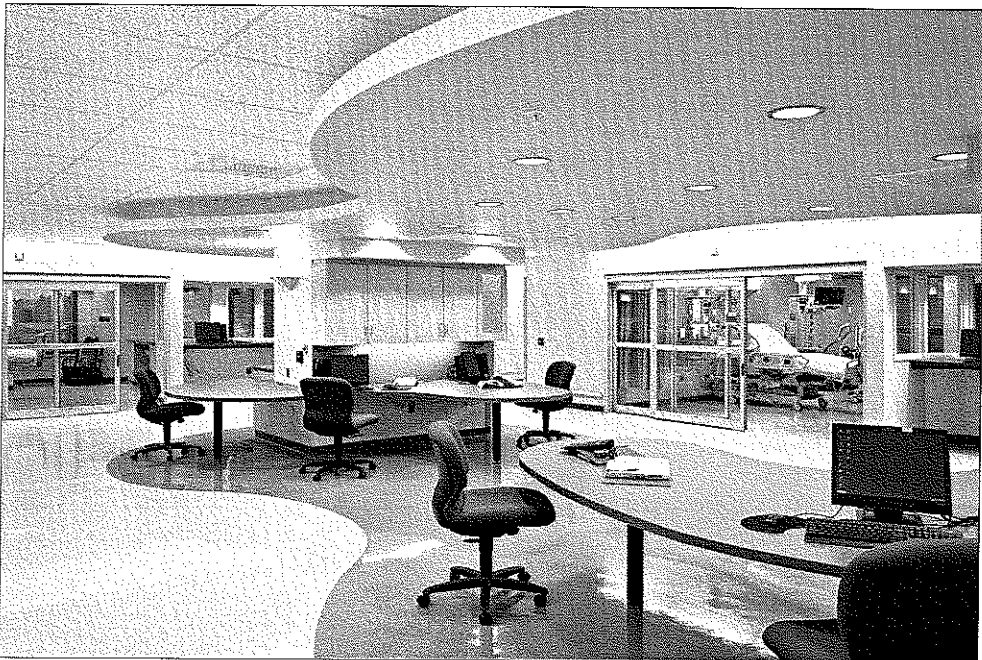
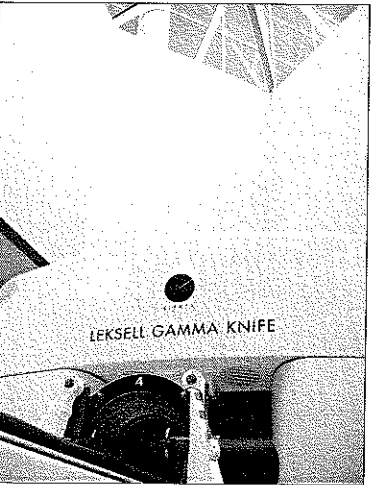
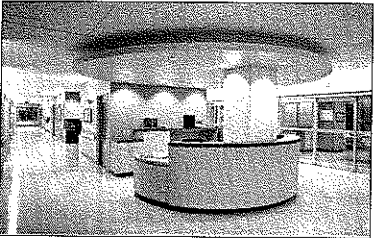
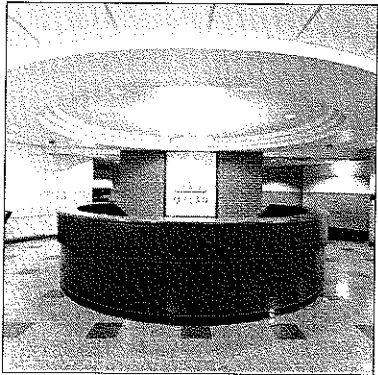
H. F. Lenz Company

Currently in its 62nd year, the H.F. Lenz Company is a Pennsylvania-based firm offering a full range of engineering services for building systems, infrastructure, and industry. Their projects span the nation, with the heaviest construction 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 client.

Health care reform, shrinking budgets, downsizing and risk management all add up to major changes in building programs. Codes are constantly evolving, construction budgets shrinking, and liability concerns growing. The location, condition, and capacity of mechanical and electrical systems can greatly affect construction costs and timing. By carefully examining present needs, steps can be taken to reduce future costs, budget for system replacement or upgrade in long-range plans, and reduce liability risks. H.F. Lenz Company's engineers offer non-biased solutions based on a facility's overall requirements and a thorough understanding of hospital codes. By analyzing infrastructure needs, identifying cost impact, and investigating cost effective alternatives, H.F. Lenz will help Omni Associates and William J. Sharpe, Jr. Hospital establish an appropriate budget and avoid costly surprises.

Omni Associates included H.F. Lenz as an integral part of the design team for the West Virginia University Hospitals Ruby Memorial Hospital Clinical Expansion. We worked closely with the WV Office of Health Facility and Licensure and Certification and the WV State Fire Marshall on this \$39 Million addition and renovation that included a total of 180,778 square feet.

H.F. Lenz Company's services include infrastructure evaluations and master plan; mechanical, electrical, and medical gas systems; life safety and fire protection systems; indoor air quality evaluations; TB/isolation room upgrades; code evaluations; communications systems/computer rooms; and building structural design.



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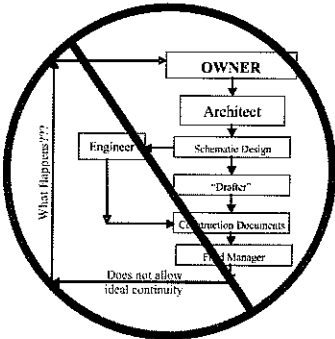
**William J. Sharpe Jr. Hospital:
New Patient Care Unit**

West Virginia
Department of Administration
Purchasing Division

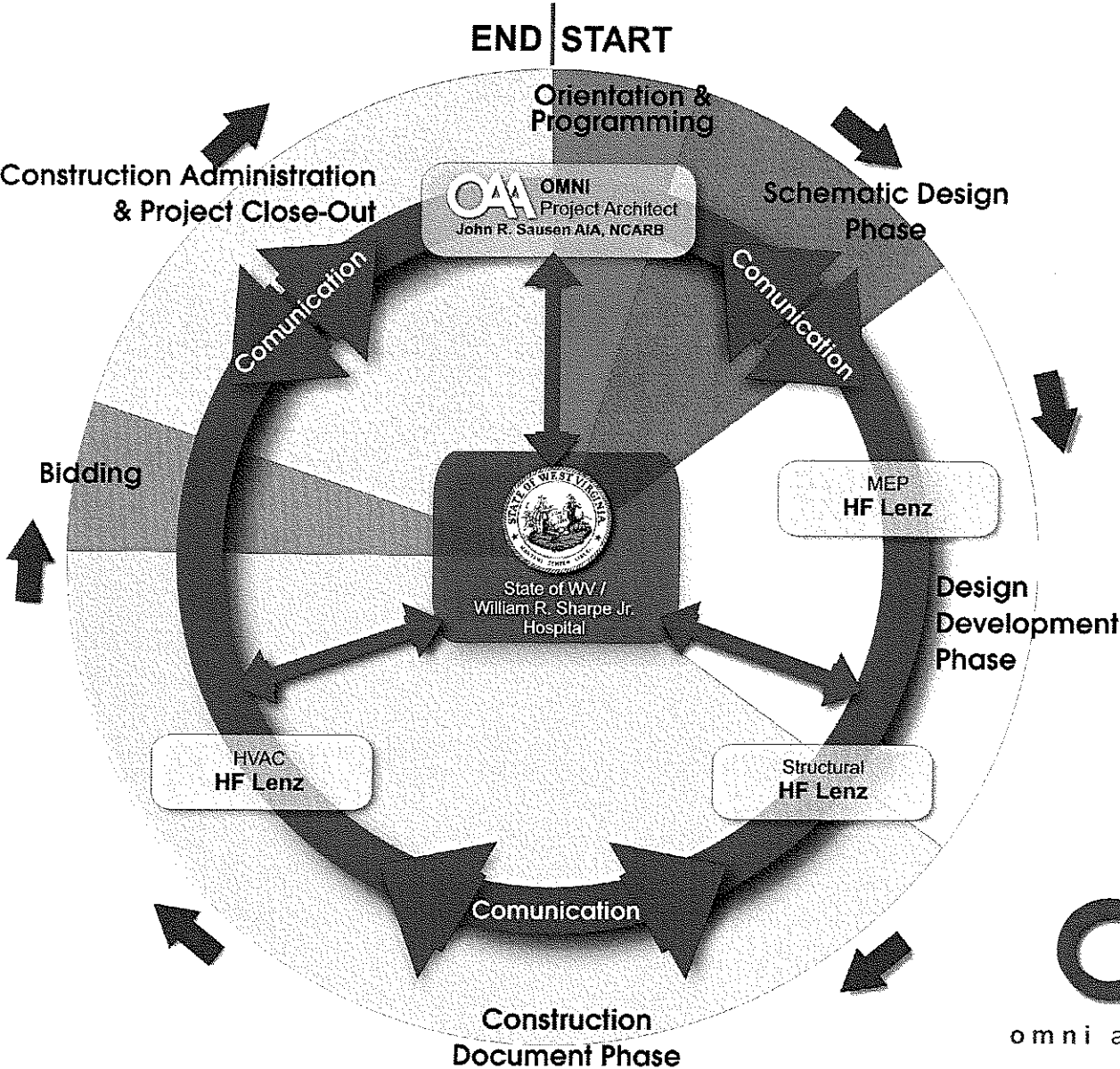
Buyer: Roberta Wagner -
File 22

Req#: WSH90086

Organizational Chart



**OMNI
COLLABORATIVE PROJECT LIFE-CYCLE**



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**William J. Sharpe Jr. Hospital:
New Patient Care Unit**

Demonstrated Experience

West Virginia
Department of Administration
Purchasing Division

Buyer: Roberta Wagner -
File 22

Req#: WSH90086

Relevant Projects

The following completed and ongoing projects demonstrate this design team's ability to execute projects relevant to the William J. Sharpe, Jr. Hospital addition and renovation. More detailed information for each of the bulleted projects can be found at the end of this proposal.

- ◆ Ruby Memorial Hospital North/Northeast Expansion
- ◆ Rosenbaum Family House at WVU Hospitals
- ◆ WVU Hospitals Cheat Lake Physicians Clinic
- ◆ WVU Hospitals / University Health Associates MRI
- ◆ WVU Hospitals Gamma Knife
- ◆ The Madison Nursing & Rehabilitation Center
- ◆ Shenandoah Nursing & Rehabilitation Center
- ◆ Mylan Executive Offices
- ◆ Mylan North Expansion



You have been an excellent team player, and we surely appreciate the quality of the building (Fairmont State College Education and Health Careers Building) you helped develop."

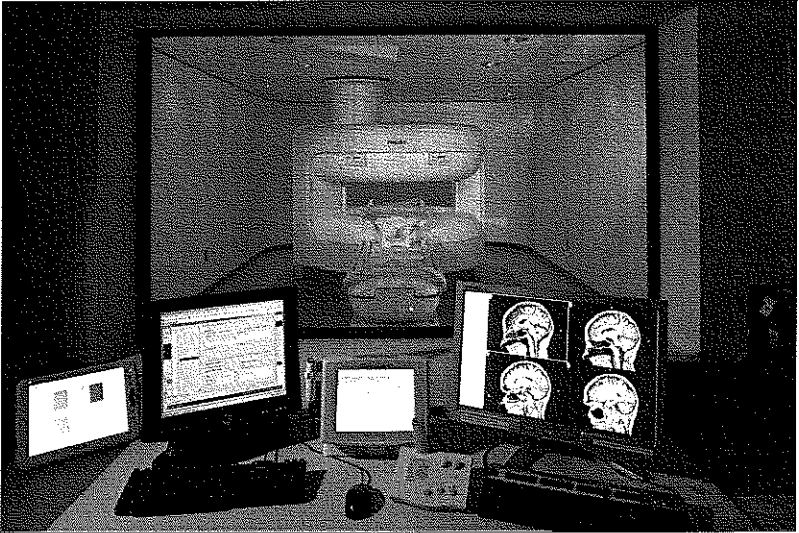
Robert J. Dillman

WVU Hospitals

- Health Sciences Center PET/CT Scanner
- ECT Clinic
- Sleep Center
- Long Term Acute Care
- Linear Accelerator #1
- Linear Accelerator #2
- Eye Center 3rd Floor

Preston Memorial Hospital

- MRI Addition
- Feasibility Study
- ER Renovation
- Birthing Center



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**William J. Sharpe Jr. Hospital:
New Patient Care Unit**

West Virginia
Department of Administration
Purchasing Division

Buyer: Roberta Wagner -
File 22

Req#: WSH90086

References

The Omni Associates realize that our relationship with our client is a vital component in the succession of realizing their goals and needs.

We encourage you to contact any of the following references in assisting you with your selection of a professional architectural firm.

Client

Contact

WVU Hospitals
P.O. Box 8233
Morgantown, WV 26506

Mr. Robert J. Carubia
WVU HSC Facilities Management
304.879.5752

**West Virginia HighTechnology
Consortium Foundation**
1000 Technology Drive, Suite 1000
Fairmont, WV 26554

Mr. Raymond Oliverio
Executive Vice President
304.366.2577

Morgantown Utility Board
278 Greenbag Road
Morgantown, WV 26501

Mr. James Green
General Manager
304.292.8443

City of Fairmont
200 Jackson Street
Fairmont, WV 26554

Mr. Jay Rogers
City Planner
304.366.6211

Mylan Pharmaceuticals
781 Chestnut Ridge Road
Morgantown, WV 26505

Mr. J.J. Dotson
Director of Engineering
304.554.5520

Canaan Valley Institute
P.O. Box 673
Davis, WV 26260

Mr. Dan Wheeler, Construction Manager
Science & Technology Team
304.463.4739

West Virginia Radio
P.O. Box 1900
570 Canyon Road
Morgantown, WV 26505

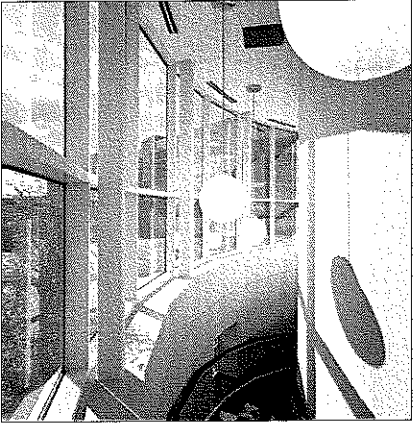
Mr. Jim Troy
V.P. of Finance
304.594.1768

**West Virginia Army
National Guard**
1707 Coonskin Drive
Charleston, WV 25311-1099

Dan Clevenger, EIT, Project Manager
Construction & Facilities Maintenance
304.561.6446

Fairmont State University
Locust Avenue
Fairmont, WV 26554

Mr. James Decker
Assistant Vice President, Physical Plant
304.367.4861



omni associates
ARCHITECTS

Resume

John R. Sausen AIA, NCARB

PROJECT ASSIGNMENT

Principal
Project Architect

EDUCATION

Bachelor of Architecture: University of Cincinnati in 1982
(Magna Cum Laude)

REGISTRATION / PROFESSIONAL AFFILIATIONS

State of West Virginia, 1985, Pennsylvania, Ohio, Maryland
National Council Architectural Registration Board
Member of The American Institute of Architects
Past President: AIA/WV
Firm Member Associated Builders and Contractors Inc.

GENERAL EXPERIENCE

- Mr. Sausen is currently in the process of obtaining certification as a LEED™ professional.
- Project Architect in charge of design and construction for The Omni Associates - Architects since 1983. Responsible for coordinating and designing all aspects of a project from schematic design through the final completion of construction including presentation renderings and graphics for a wide range of commercial projects. Specializing in Design-Build.
- Worked for three months in 1981 for Kraemer, Sieverts & Partners, Braunschweig, West Germany on an office, residential and civil defense complex for the Ministry of Interior, Kingdom of Saudi Arabia. The complex was to be of pre-cast metric. The design was to be flexible enough for construction in six different cities.
- Interned with architectural firms in Ohio and West Virginia prior to joining Omni.

RELATED EXPERIENCE

- President of American Institute of Architects - West Virginia Chapter in 2000 & 2001. Worked with the Design Awards, Search for Shelter, Architecture for Kids, Livable Communities Committees. Has served on the AIA West Virginia Board of Directors from 1990 to present.
- Instructor of Architecture at Fairmont State College, Fairmont, West Virginia - part time to 1990. Responsible for the instruction of design and construction relationships.
- Pleasant Acres Personal Care Home in Fairmont, WV, Board of Directors member since 1990.
- Boy Scouts of America, Mountaineer Area Council merit badge counselor, building committee member and Eagle Scout Chairman. Achieved the rank of Eagle Scout and has been involved with Scouting for over 20 years.



Select Project Experience for Mr. Sausen

Mylan Pharmaceuticals

Morgantown, WV

(Design - Build Projects)

North Expansion
Executive Offices
Corporate Office Building
Research and Development Lab

West Virginia University Hospitals

Morgantown, WV

North & Northeast 8 story addition
Cheat Lake Family Medicine Clinic
The Family House
Linear Accelerator Installations I & II
Center for Gamma Knife
Radiosurgery
Eye Center Clinic Renovations

HealthWorks Physical Therapy Facility

Morgantown, WV

Glenmark Corporation

Personal Care Facilities

The Madison, Morgantown, WV
Shenandoah Nursing & Rehabilitation
Center, Charles Town, WV
Oak Ridge Nursing & Rehabilitation
Center, Charleston, WV

WV Radio Corporation

WDYK Radio, Cumberland, Md.

CDC/NIOSH

Open End Multi Year Contract
Morgantown, WV / Pittsburgh, Pa.

Glenville Federal Correctional Institute

Construction Administration
Glenville, WV.





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**Johnstown
Headquarters**
1407 Scalp Avenue
Johnstown, PA 15904
Phone: 814-269-9300
Fax: 814-269-9301

Steven J. Gridley, P.E.

Principal-in-Charge of MEP Engineering

Mr. Gridley is responsible for the master planning and design of health care facilities, college and university facilities, industrial facilities, data operations centers, commercial office buildings, utility systems, and renovation/retrofit of historic buildings for private, public, and governmental agencies. He is experienced in the design of chilled water, steam, hot water, refrigeration, air distribution, heat recovery and control systems, uninterruptible power supplies, underground power distribution systems, and interior building distribution systems of all types including building lighting, building security and surveillance, fire protection, normal and emergency power distribution, communication systems, and computer power systems. His health care experience includes:

Ruby Memorial Hospital
West Virginia University Hospitals
Morgantown, West Virginia
176,000 sq.ft. addition and 47,000 sq.ft. renovation, the project included a new boiler/chiller plant to serve 878,000 sq.ft. of clinical space

Jefferson Memorial Hospital
West Virginia University Hospitals
Ranson, West Virginia
Various renovations and additions

Martinsburg Medical Office Building
Martinsburg, West Virginia
New medical office building

Hamot Medical Center
Erie, Pennsylvania
*- New Heart Institute
- Millennium Project including new operating rooms, and emergency room expansion
- New 9,800 square foot Outpatient Facility*

UPMC Lee Regional
Johnstown, Pennsylvania
New 105,000 sq.ft. patient care facility

Altoona Hospital
Altoona, Pennsylvania
New 153,000 sq.ft. outpatient services tower

Veterans Affairs Medical Center - Oakland
Pittsburgh, Pennsylvania
New four-story clinical, education, and outpatient addition and renovation of five floors

Good Samaritan Medical Center
Johnstown, Pennsylvania
Emergency Department renovation, New pain clinic, and New Urgi-Care Center

Balanced Care Corporation - Various sites including: Martinsburg, WV; PA; VA; OH; and FL - *New assisted living facilities ranging from 31,000 sq.ft. to 36,000 sq.ft. with 60- to 66-beds each*

Education

Bachelor of Science, Architectural Engineering, 1979, Pennsylvania State University

Experience

H.F. Lenz Company 1979 - Present

Professional Registration / Certification

Licensed Professional Engineer in West Virginia • Pennsylvania • Alabama • Arkansas • Arizona • California • Colorado • Connecticut • Florida • Georgia • Illinois • Indiana • Kansas • Kentucky • Louisiana • Maine • Maryland • Michigan • Minnesota • Mississippi • New Jersey • New Mexico • New York • Nevada • North Carolina • Ohio • Oklahoma • Oregon • Rhode Island • South Carolina • Tennessee • Texas • Utah • Virginia • Washington • Wisconsin

Professional Achievements and Affiliations

First Place, 1987 ASHRAE International Energy Award • National Society of Professional Engineers • Pennsylvania Society of Professional Engineers • Professional Engineers in Private Practice • American Society of Heating, Refrigerating and Air-Conditioning Engineers • Building Officials Code Administrators International • National Fire Protection Association



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Joel C. Shumaker, P.E.

Electrical Engineer and LEED™ Accredited Professional

As Project Manager, Mr. Shumaker is responsible for client contact; project scheduling; preparation of reports and cost estimates; coordination and supervision of project design teams; and other project management functions. He is experienced in the design of electrical systems for both new buildings and building retrofits for health care, educational, commercial, government, industrial, residential, and utility-related facilities. Mr. Shumaker is experienced in the design of power distribution systems; emergency power systems and monitoring; uninterruptible power supplies; fire alarm, nurse call, security, sound, and telephone systems; and lighting and emergency lighting systems. His project experience includes:

Ruby Memorial Hospital
West Virginia University Hospitals
Morgantown, West Virginia
176,000 sq.ft. addition and 47,000 sq.ft. renovation, included new boiler/chiller plant

Jefferson Memorial Hospital
West Virginia University Hospitals
Ranson, West Virginia
Various renovations and additions

Altoona Hospital
Altoona, Pennsylvania
New 153,000 sq.ft. outpatient services tower

Veterans Affairs Medical Center
Philadelphia, Pennsylvania
– Comprehensive utilities master plan and new construction program for an 11-acre, 25-building medical complex that serves 600,000 veterans
– New 240-bed nursing home care unit

Veterans Affairs Medical Center,
Aspinwall Facility, Pittsburgh, Pennsylvania
– Comprehensive technical evaluation and master plan for a 30-building medical complex on a 58-acre site
– New 240-bed nursing home

Balanced Care Corporation - Various sites including: Beaver Falls, Harrisburg, Dillsburg, and Reading, PA; Danville, Harrisonburg, and Roanoke, VA; Ravenna, Medina, and Steubenville, OH; Martinsburg, WV; Pensacola, New Port Ritchey, Titusville, Rockledge, and Leesburg, FL
New assisted living facilities generally ranging from 31,000 sq.ft. to 36,000 sq.ft. with 60- to 66-beds each

Bon Secours - Holy Family, Regional Health System, Altoona, Pennsylvania
– Renovation of geriatric/psychiatric unit
– Skilled nursing unit renovation
– Various Renovation projects throughout the facility

Hanover Hall Nursing Home
Hanover, Pennsylvania
JCAHO Study

Heritage Health System, The Medical Center
Beaver, Pennsylvania
– Numerous upgrades, alterations, and additions to a 500-bed medical center
– Electrical system upgrade of entire hospital

Education

Bachelor of Science, Electrical Engineering Technology, 1993, University of Pittsburgh at Johnstown

Experience

H.F. Lenz Company 1985 - Present

Professional Registration / Certification

Licensed Professional Engineer in Pennsylvania and West Virginia

Professional Affiliations

Association of Physical Plant Administrators • National Society of Professional Engineers • Pennsylvania Society of Professional Engineers • Southern Building Code Congress International



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**David F. Bacci, P.E.
Mechanical Engineer**

Mr. Bacci is experienced in the design of mechanical equipment rooms involving the installation of gas- and oil-fired steam and hot water boiler systems. He is also experienced in the design of heating, ventilating, and air conditioning systems including steam, hot water, chilled water, refrigeration, and air distribution systems. Mr. Bacci's involvement has encompassed field survey of existing conditions, engineering analyses, systems design, and the preparation of cost estimates. He has been involved in several energy conservation studies. Mr. Bacci also is a responsible Project Engineer. He performs project scheduling duties, coordination and supervision of project design teams, prepares reports and cost estimates, and other project management functions. His projects include (*indicates prior experience):

Conemaugh Memorial Medical Center
Johnstown, Pennsylvania

- *Multi-building master plan evaluation of utility systems*
- *Six-story, 220,000 sq.ft. addition and renovations within 25,000 sq.ft. of existing space*
- *Short Term Ambulatory Surgery relocation*
- *Good Samaritan Psychiatric Suite*
- *60+ renovation and/or addition projects*

Balanced Care Corporation - Various sites including: Beaver Falls, Harrisburg, Dillsburg, and Reading, PA; Danville, Harrisonburg, and Roanoke, VA; and Ravenna, OH
New assisted living facilities generally ranging from 31,000 sq.ft. to 36,000 sq.ft. with 60- to 66-beds each

Homewood Assisted Living Center
Martinsburg, West Virginia
60,000 sq.ft. assisted living center with therapy pool

Bon Secours Family Hospital
Altoona, Pennsylvania

- *Bio-terrorism evaluation of 350,000 sq.ft. tertiary medical facility.*
- *Master plan for HVAC upgrades*
- *Comprehensive review of HVAC systems*

Education

Bachelor of Science, Mechanical Engineering Technology, 1986, University of Pittsburgh at Johnstown

Experience

H.F. Lenz Company 1997 - Present
Glassman and Associates 1989 - 1997 • Gauthier Alvarado and Associates 1986 - 1989

Professional Registration / Certification:

Licensed Professional Engineer in Pennsylvania and Virginia

Professional Affiliations

American Society of Heating, Refrigerating and Air-Conditioning Engineers • International Society of Pharmaceutical Engineers • Past President, Johnstown Chapter - Pennsylvania Society of Professional Engineers

Windber Medical Center
Windber, Pennsylvania

- *Hospice*
- *Medical Arts Building*
- *Senior Center*
- *Chiller Plant Upgrade*
- *Sprinkler Facility*

Altoona Hospital
Altoona, Pennsylvania

- *Master plan for the consolidation of Altoona Hospital and Bon Secours Holy Family Regional Health System. Determined the functional space requirements and individual department locations within each facility and developed a capital cost to implement a short-term implementation plan. A long-range feasibility study for a complete replacement facility was also developed*
- *50+ renovation and/or addition projects*

Hamot Medical Center
Erie, Pennsylvania

- *New Ambulatory Surgery Facility*
- *Millennium Project including new operating rooms and emergency room expansion*

Nason Hospital
Roaring Spring, Pennsylvania

- *Emergency Department Renovation*
- *Bioterrorism study*



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Jeffrey L. Jarvis
Plumbing Designer / Medical Gas

Mr. Jarvis is experienced in all aspects of the design and specification writing of healthcare plumbing systems including extensive medical gas systems, acid waste and vent, plumbing fixture requirements, decontamination chambers and complete plumbing system requirements for health care correctional, institutional, industrial, educational, and commercial facilities. He also has several years of hands-on experience with a variety of field, plumbing, healthcare systems including laboratory, medical gas, and balancing return systems.

Mr. Jarvis's project experience includes:

Heritage Health System, The Medical Center
Beaver, Pennsylvania
– Geriatric/psychiatric unit
– Skilled nursing facility
– Facility-wide renovations for Patient Focused Care Program
– Outpatient surgery addition
– Cardiac catheterization laboratory addition
– Plumbing / Medical Gas design for neuropsychiatric unit
– Recovery area renovation
– Building systems upgrades (Medical Gas)
– Multiple CT Scan renovations
– Linear accelerator renovation

Hamot Hospital
Erie, Pennsylvania
Plumbing design of the 56,254 sq. ft. millennium addition and renovation project

Conemaugh Health Systems
Johnstown, Pennsylvania
Plumbing design of the 12,832 sq. ft. ambulatory surgery suite

Somerset Hospital
Somerset, Pennsylvania
Medical gas design for new 24,000 sq. ft. renovation

UPMC Lee Hospital
Johnstown, Pennsylvania
Medical gas design for new 45,000 sq. ft. renovation

Children's National Medical Center
Washington, D.C.
– Medical gas design for 250,000 sq. ft. addition
– New medical air and vacuum pump systems

Conemaugh Health Systems
Johnstown, Pennsylvania
Plumbing design of a new 242,000 sq.ft. medical pavilion

Children's Hospital Pittsburgh
Pittsburgh, Pennsylvania
Medical air system replacement and alarm upgrade

Kane Community Hospital
Kane, Pennsylvania
Plumbing design for new MRI suite

Sewickley Hospital
Sewickley, Pennsylvania
– 7th floor medical/surgical renovation
– Emergency department renovation

Education

Associate Degree, Specialized Technology, Mechanical Drafting 1988
Hiram G. Andrews Center

Experience

H.F. Lenz Company 1989 - Present
L. Robert Kimball & Associates 03/89 – 09/89
U.S. Government, The Pentagon 06/85 – 08/85

Professional Affiliations

ASPE Member
Medical Gas Professional Healthcare Organization



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Jeffrey A. McKendree, C.E.T.

Fire Protection Designer
NICET Level III Automatic Sprinkler System Layout

Mr. McKendree is a graduate of Eastern Kentucky University's Fire and Safety Engineering program, a program of distinction in the Commonwealth of Kentucky as certified by the Commonwealth of Kentucky Board of Higher Education. Mr. McKendree's experience prior includes conducting site inspections for emergency incident planning in Lower Paxton Township in suburban Harrisburg, Pennsylvania. Typical sites included educational, industrial, manufacturing, and mercantile properties. These plans have been utilized to protect lives and property from the effects of fire through the use of NFPA and local standards for safety.

He is fully knowledgeable of NFPA standards and is experienced in the design of wet, dry, preaction, deluge, and special application fire protection systems. He is responsible for sprinkler system design, layout, and calculations; selection and sizing of fire protection equipment; cost estimates; and site survey work. Mr. McKendree coordinates with other trades, municipal fire protection authorities, utility companies, and with the Project Engineer and project Architect. Mr. McKendree's projects include:

Ruby Memorial Hospital
West Virginia University Hospitals,
Morgantown, West Virginia
*176,000 sq.ft. addition and 47,000 sq.ft.
renovation, project included a new
boiler/chiller plant to serve 878,000 sq.ft. of
clinical space*

UPMC Lee Regional Patient Care Center
Johnstown, Pennsylvania
*New 105,500 sq.ft. state-of-the-art patient care
building*

UPMC Lee Regional Cancer Center,
Johnstown, Pennsylvania
New 33,660 sq.ft. cancer care center

Conemaugh Oncology Center
Johnstown, Pennsylvania
New 26,000 sq.ft. cancer care center

Hamot Surgery Center
Erie, Pennsylvania
*Designed the new automatic fire protection
system for this new one-story facility*

Hamot Hospital
Erie, Pennsylvania
- New 80,000 sq.ft. Heart Institute
*- Millennium Project including new operating
rooms, and emergency room expansion*

Windber Medical Center
Windber, Pennsylvania
*Evaluated existing fire protection system and
provided recommendations to bring the facility
to the minimum requirements outlined in BOCA
Building Code - 1996 edition followed by the
redesign and adaptation of the existing fire
protection system to meet these requirements*

Children's National Medical Center
Washington, D.C.
New additions and renovations

Laurel Crest Manor
Cresson, Pennsylvania
Renovations to a 370-bed County nursing home

Education

Bachelor of Science Degree, Fire and Safety Engineering, 1999, Eastern Kentucky University
Associate of Arts Degree, Fire Science Technology, 1997, Harrisburg Area Community College

Experience

H.F. Lenz Company June 1999 - present
Paxtonia Fire Company incident preplanning committee August 1995 - August 1997

Professional Registration / Certification

NICET Level III in Fire Protection Engineering Technology / Automatic Sprinkler System Layout



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Steve J. Kormanik, C.P.D.
Plumbing / Fire Protection Designer

Mr. Kormanik has designed complete plumbing and sprinkler systems for hospitals, colleges, schools, laboratories, office buildings, industrial facilities, prisons, and military installations. He is responsible for plumbing and sprinkler system design, layout, calculations; selection and sizing of equipment; cost estimates; and site surveys. He is knowledgeable of all applicable plumbing codes. He 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. Kormanik also conducts evaluations and prepared reports of existing plumbing and sprinkler systems for commercial and institutional facilities. His project experience includes:

West Virginia University Hospitals
Ruby Memorial Hospital,
Morgantown, West Virginia
New 176,000 sq.ft. addition and 47,000 sq.ft. renovation including a new boiler/chiller plant to serve 878,000 sq.ft. of clinical space

Martinsburg Medical Office Building
Tri-State Professional Complex
Martinsburg, West Virginia
New 30,000 sq.ft. medical office building that houses The Center For Orthopedic Excellence, Tri-State Surgery Center and Premier Physical Therapy and includes additional space for future tenant.

Conemaugh Memorial Medical Center,
Johnstown, Pennsylvania
Plumbing design for 250,000 sq.ft. hospital expansion project

Conemaugh Oncology Center
Johnstown, Pennsylvania
Plumbing designer for a new 26,000 sq.ft. cancer care center

Altoona Hospital
Altoona, Pennsylvania
- New 280,000 sq.ft., seven-story outpatient tower
- Various renovation projects

Veterans Affairs Medical Center
Philadelphia, Pennsylvania
- New 680,000 sq.ft. clinical addition
- Building 1 renovation

Veterans Affairs Medical Center, Aspinwall
Facility, Pittsburgh, Pennsylvania
- New 160-bed intermediate care building
- New boiler/chiller plant

Hamot Hospital
Erie, Pennsylvania
- New 80,000 sq.ft. Heart Institute
- New 42,000 sq.ft. addition and renovation of 20,00 sq.ft. of clinical space (Millennium Project)
- Facility-wide sprinkler system design renovation
- North wing domestic water study and conceptual design

Heritage Health System, The Medical Center
Beaver, Pennsylvania
\$30 million facility realignment program

Westmoreland Hospital
Greensburg, Pennsylvania
Plumbing and fire protection design for a new four-story medical office building

Education

Associate, 1983, Interior Design, Art Institute of Pittsburgh

Experience

H.F. Lenz Company 1985 - Present

Professional Certification

Certified in Plumbing Design, ASPE • Certified Plumbing Plans Examiner (BOCA)
Certified Plumbing Inspector (BOCA)



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Brian J. Rager

Construction-Phase Representative

Mr. Rager serves as a Construction-Administration Representative in all types of heating, ventilating, air conditioning, plumbing, fire protection, electrical, building management, automatic temperature control, and site utility projects. He has a thorough knowledge of system design concepts and is responsible for carrying out the company standard of quality during construction. His responsibilities include pre-design site surveys; on-site troubleshooting; mechanical/electrical coordination; monitoring and observing construction workmanship to ensure conformity with the contract documents; enforcing applicable codes during construction; attending construction and coordination meetings; providing cost estimates for contract revisions; and reviewing vendor/contractor submittals.

Mr. Rager has provided construction administration services for institutional, commercial, and industrial projects. His projects include:

Veterans Affairs Medical Center
Philadelphia, Pennsylvania
– 680,000 sq.ft. clinical addition
– 525-car parking garage
– New chiller building
– New 240-bed nursing home

Heritage Health System, The Medical Center
Beaver, Pennsylvania
– Boiler conversion
– Energy retrofit of AHUs
– Power factor correction for building electric service

Veterans Affairs Medical Center
Aspinwall Facility
Pittsburgh, Pennsylvania
– New 210,000 sq.ft. intermediate care building
– 7,200 sq.ft. boiler/chiller plant
– New 240-bed nursing home

National Institutes of Health,
Bethesda, Maryland
HVAC renovations

West Virginia University
Robert C. Byrd Health Sciences Center
Morgantown, West Virginia
Correct HVAC deficiencies in autopsy area

Veterans Affairs Medical Center
Oakland Facility
Pittsburgh, PA
– Renovation of five floors of the existing hospital
– New four-story clinical, education, and outpatient addition
– Animal Research Building addition

West Virginia University
Charles Wise Library
Morgantown, West Virginia
124,000 sq.ft. addition and 86,000 sq.ft. renovation to existing facility featuring an underground steam line

Plastic Surgical Associates
Johnstown, Pennsylvania
New medical office building

University of Pittsburgh
Sutherland Hall
Pittsburgh, Pennsylvania
New dormitory complex

Naval Research Laboratory
Washington, D.C.
– Replace HVAC system in two office buildings
– Emergency generator

Carnegie-Mellon University
Fluorescence Center
Pittsburgh, Pennsylvania
Renovation and upgrade of existing laboratory facilities

Education

Associate Degree, Electronics Engineering Technology, 1977, Ohio Institute of Technology

Experience

H.F. Lenz Company 1980 - Present



H.F. Lenz Company was recently ranked in the "Top 100 Green Design Firms" in the County, by ENR Magazine (June 2008 edition). We have been a member of the United States Green Building Council since 2000 and currently have fourteen (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, whether they are designed to attain LEED™ Certification or not. In addition, we also became an **Energy Star® Partner Firm** in 2008, and recently completed our fourth project which has attained an Energy Star® Rating. A few of our recent sustainable projects include:

- Carnegie Mellon University's 72,000 sq.ft. New House First Year Residence Hall, one of the first residence halls in the Country to apply for and receive LEED™ Certification (LEED™ Silver)
- Indiana University of Pennsylvania's (IUP) new student housing facilities Phases I and II totaling over 700,000 sq.ft., both of which are designed to attain LEED™ Certification
- Immaculate Heart of Mary Motherhouse renovation (375,000 sq.ft.) which attained LEED™ Certification and an Energy Star® Award
- Culinary Institute of America's New 46,000 sq.ft. student housing facility which incorporated several sustainable design concepts and enable the College to receive grants from the New York State Energy Research and Development Authority (NYSERDA)

H.F. Lenz Company currently has 11 projects that have attained various levels of LEED™ Certification, as well as 21 design projects and 17 commissioning projects 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 facilities.

Green Building Strategies

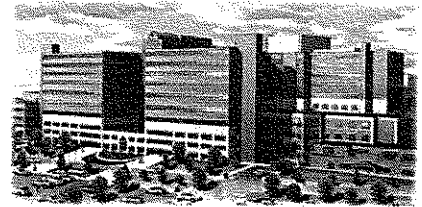
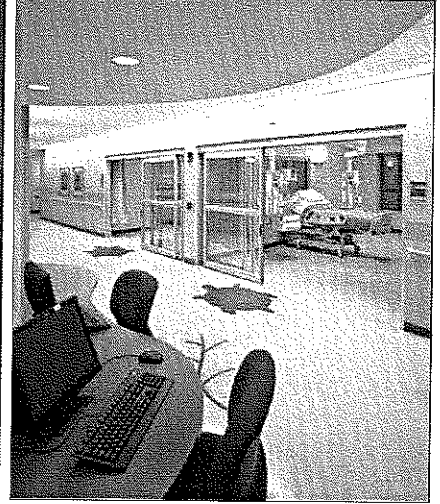
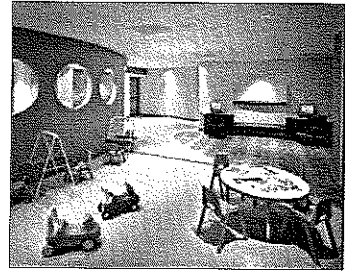
- Optimize building envelope
- Light Pollution Reduction
- Water Use Reduction
- Ventilation Reduction through CO₂ monitoring
- Optimize Energy Performance
- Evaluate Heat Recovery Opportunities
 - Water source heat pumps
 - General exhaust heat/enthalpy recovery
 - Geothermal potential (aesthetic benefits)
 - Thermal Comfort
- Lighting selection and lighting control
- Daylighting Options and Controls
- Building commissioning/energy management controls
- Controllability of Systems



H.F. Lenz Company has been providing commissioning services for over 30 years. In addition to our own projects, we commonly commission building systems designed by other professionals. Our commissioning personnel each have a minimum of 10 years experience and are well versed in all aspects of the commissioning process from the design phase through the construction phase and operations phase/post acceptance phase. Commissioning services are carried out by our Commissioning Services Division and members of our design teams. We have performed LEED™ commissioning for numerous LEED™ registered projects including Carnegie Mellon University's Henderson House Dormitory, Case Western Reserve University's North Residential Village housing complex, and IUP's new student housing facilities (mentioned above).



Ruby Memorial Hospital North / Northeast Expansion



Clinical Expansion

Ruby Memorial Hospital
WVU Hospitals
Morgantown, West Virginia

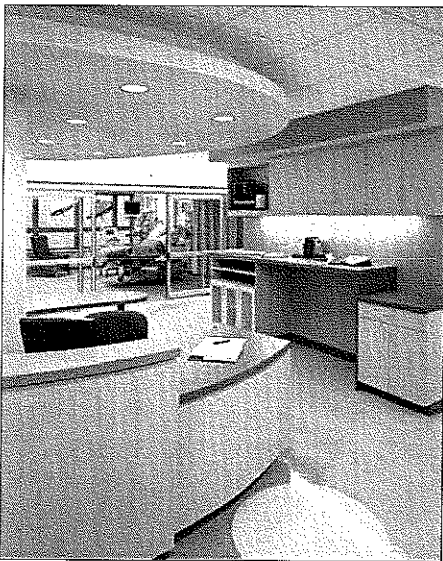
Total Project: \$39 Million
North Addition - 46,324 Square Feet
Northeast Addition - 134,454 Square Feet
Total Project: 180,778 Square Feet

Services Provided: Full Architectural / Architect of Record

Owners Representative:
Robert Carubia AIA, Asst. Vice President:
WVU HSC Facilities Planning
304.598.4274

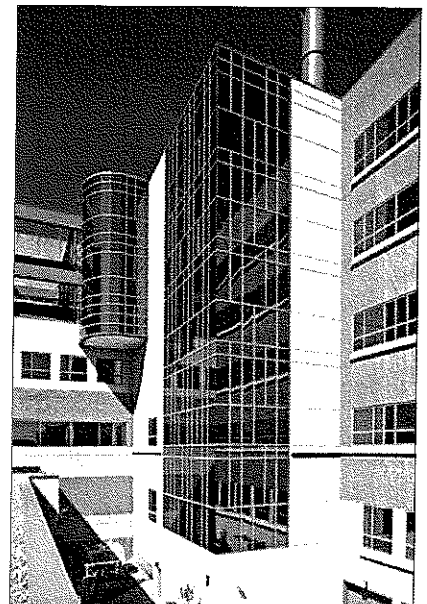
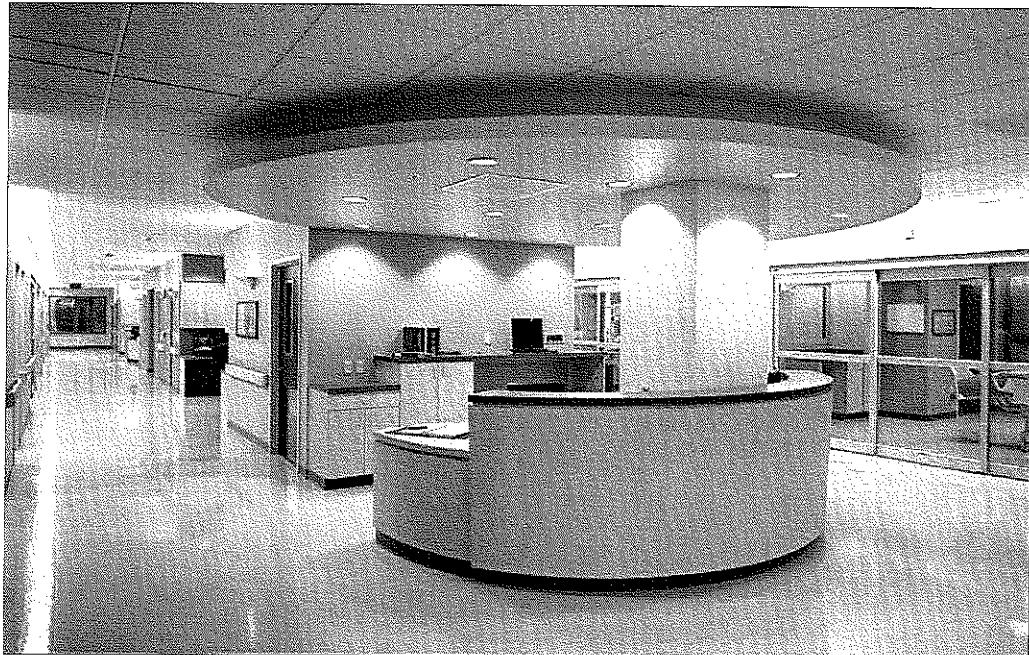
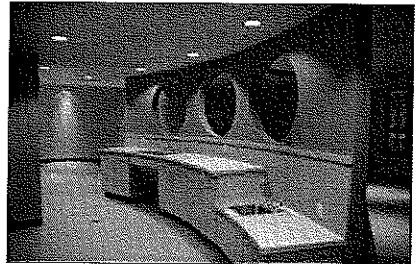
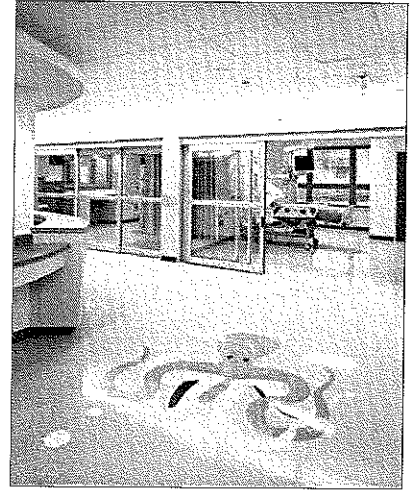
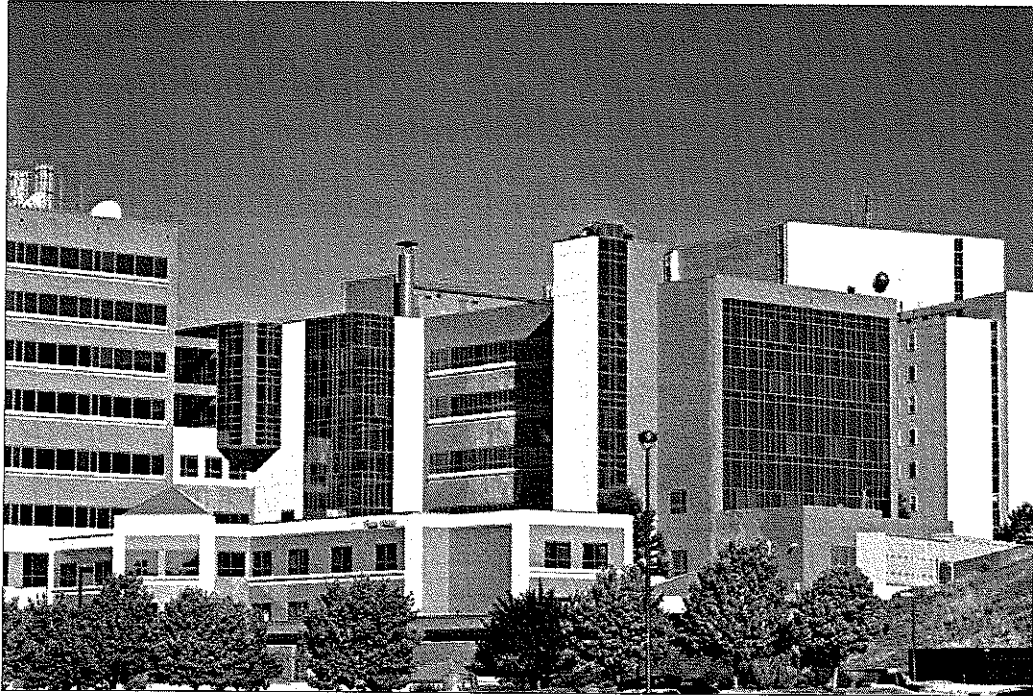
The North & Northeast Additions to WVUH comprise an integral part of the hospital's overall Master Plan. The North addition is approximately 40,000 sq. ft. in area and adds two stories to the existing structure. A new surgical suite on the 5th floor includes 6 new operating rooms and extra space for 4 future ORs necessitated by the rapid expansion of the hospital. The 6th floor boasts a much improved Biomedical Engineering area and other staff offices.

The Northeast addition totals at approximately 125,000 sq. ft. and is 8 stories in height. This structure allows for the expansion of several of the existing hospital departments and for the creation of some new ones as well. These include enlarged shipping & receiving areas, conference rooms, Intensive Care Unit, and Pediatric Intensive Care Unit. There is also a new Skilled Nursing Unit (SNU) and a Long Term Acute Care Hospital (LTACH). These provide the hospital with a total of 82 new patient rooms, with space for future expansion.

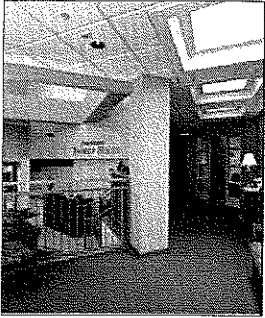




Ruby Memorial Hospital North / Northeast Expansion



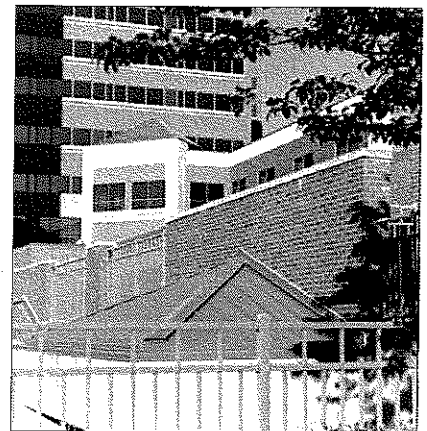
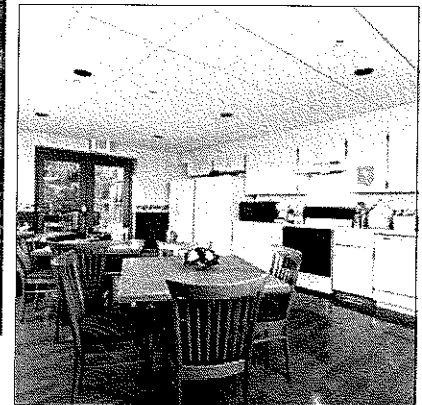
Rosenbaum Family House at WVU Hospitals



WEST VIRGINIA UNIVERSITY HOSPITALS

Rosenbaum Family House

WVU Hospitals
Morgantown, West Virginia
28,000 Square Feet
20 Rooms
5 Apartments



The Family House was created to form an environment for patients and their families who require a long stay at the hospital, but do not require a bed in the hospital. As a part of the treatment for organ transplant and cancer patients, it is beneficial to provide a place where the patient can be away from the institutional environment and spend valuable time with their families both before and after the treatments.

The site required that the building be connected to the hospital so patients can freely go to the proper care areas and even use the hospital's cafeteria and other services. The site was difficult due to the severely sloping site and the confined area between the hospital to the west, the access drive on the south, the day care center to the east and large buried utilities on the north. The lower two floors connect the hospital to the conference rooms of the day care center and the upper two floors create a private environment for the Family House guests. The elevator and upper floor connections are controlled by card access to members only.

The building massing was required to "blend" with the existing institutional urban-like articulation of the existing buildings.



Rosenbaum Family House at WVU Hospitals

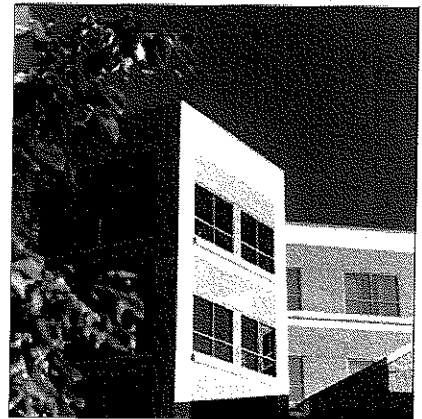
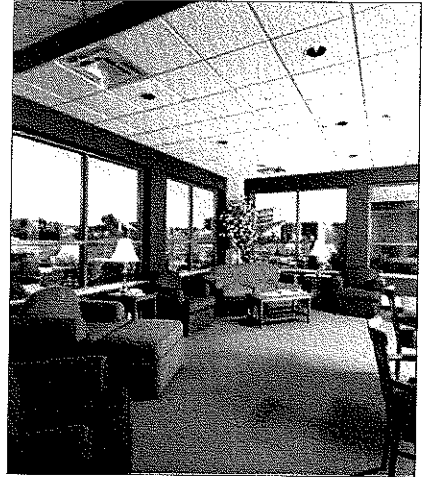
However, the interior of the lobby and the guest room areas needed to be an inviting and warm atmosphere that provided a sense of shelter and private care.

The Family House provides an internal environment of hospitality that gives the "guests" a level of pampered care. It contains hotel-like rooms, apartments for longer stays, a "quiet" lounge and an "activity" lounge. Each floor has a community kitchen and the third floor opens out to a semi-private outdoor garden space. The corridors open up to sequential entrances to the rooms. The interior spaces have large windows to flood the rooms with light and allow views out to the stadium on one side and the garden space on the other side.

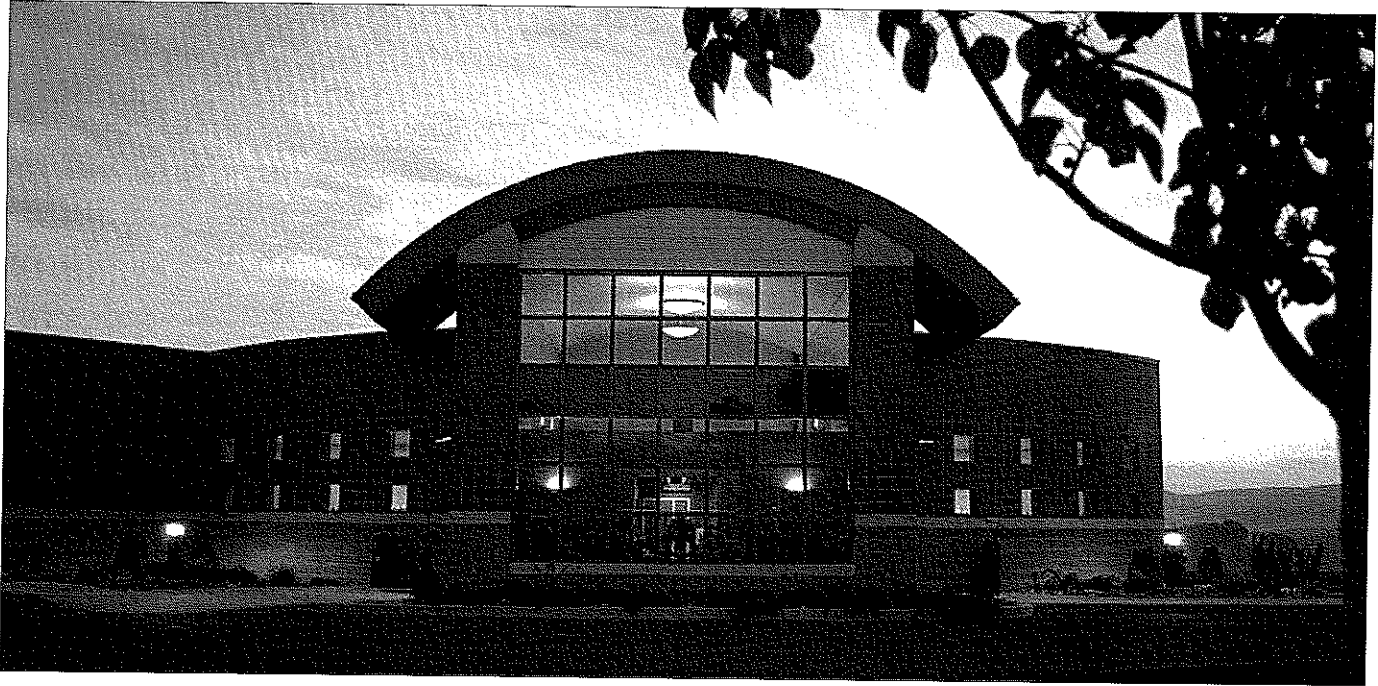
Each family has private access to their room and can use the community spaces for group activities. Colors were selected to be elegant and give a sense of charm. Laundry and storage for personal possessions is also provided. The "bridge" connections allow patients direct access to the hospital for their care and emergency needs. Before this facility, patients had to travel for daily treatments or consultations and then try to secure hotel space in the area.

The tight site in addition to the hospital's need to limit noise to patient care areas and to maintain access to the entrance drive and day care center impeded the construction sequence. The lower lobby provides a guest entrance for the Family House but also is a breakout lounge for the adjacent conference rooms and provides direct access to the hospital's lobby and gift shop. This area has become a major connection for the three connected facilities.

The Family House has become an uplifting experience for the patients and the families that use the rooms and activity spaces as a part of their health recovery.



West Virginia University Hospitals Cheat Lake Physicians Clinic



A reclaimed fill site on the edge of a valley view was selected by a multidiscipline health care group for their outpatient clinic. The triangular site was barely enough space to fit the program that included the need for a future expansion space. The clinical space had to be divided into five sub-groups yet flexible enough to act as flex space if one group needed exam space adjacent to another grouping.

The overall experience was to be one of arrival to a relaxing and inviting space that dispelled the common institutional environment. The large vaulted entry and waiting area was more like a hotel lobby and allowed light to filter into warm and soft surroundings. The seating was grouped so children and their parents could have a place next to but segregated from other patients. The multiple entry points into the exam pods allowed for easy flow of the various patient care needs.

Each exam group was accented by some special feature like the skylight areas, lighting or other references so flow through an otherwise uniform geometry could have identity for various areas. The desire for light and openness combined with the requirement for privacy and security had to be integrated into the design. The common spaces are high, open and well lit with natural light while the triage and exam areas allow for privacy even if doorways are slightly ajar. This allows staff and patients to flow freely without interfering with proper concern for patient care.



Cheat Lake Physicians Clinic

WVU Hospitals
Morgantown, West Virginia
Outpatient Healthcare Clinic

Main Floor: 13,595 Square Feet
Low Floor: 2,465 Square Feet
Total Project: 16,060 Square Feet
Construction Cost: \$2,571,743.00

Services Provided: Full Architectural /
Architect of Record

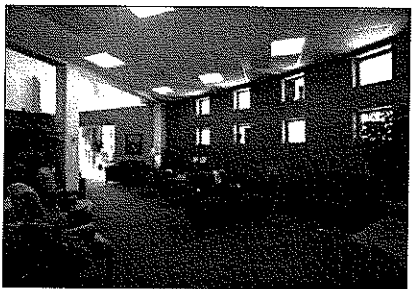
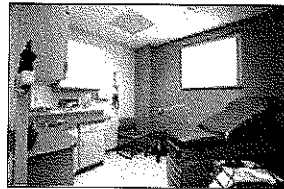
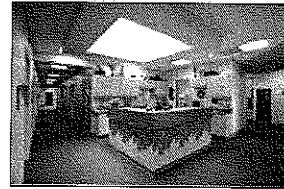
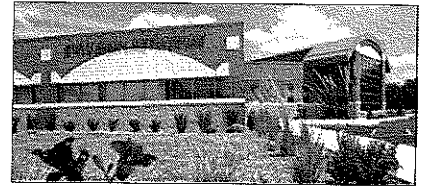
Owners Representative:
Robert Carubia AIA, Asst. Vice President:
WVU HSC Facilities Planning
304.598.4274



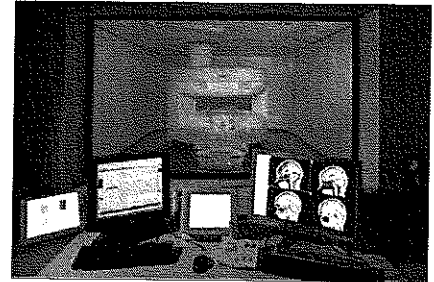
West Virginia University Hospitals Cheat Lake Physicians Clinic

Special procedure rooms were tucked into strategic corners so that they are easily accessible. Minor procedures, testing and diagnostic can all be performed in a comforting environment. Windows were placed high on the elevations to allow for daylight into the exam rooms without patients feeling as if the world was looking into the space.

The building form was simple geometry to allow for group clusters of similar size on the interior. The entry element acts as an arching connector for the current and future wings and creates the fulcrum to balance the diagonal boxes that fit on the triangular site. The use of common materials in a collage fashion breaks down the low linear scale of the building mass.

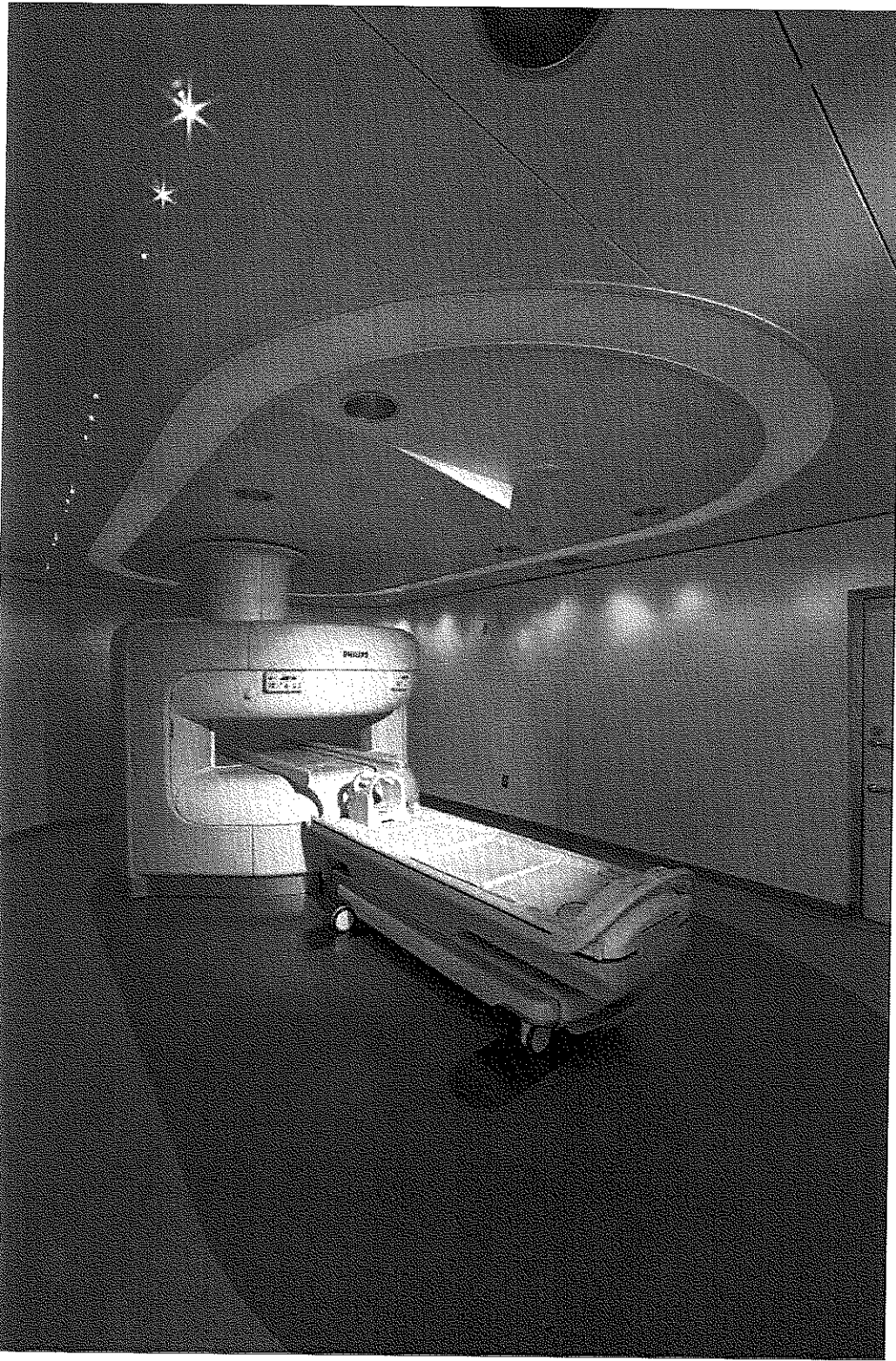


**MRI:
West Virginia University Hospitals /
University Health Associates**



MRI
West Virginia University Hospitals /
University Health Associates
Morgantown, West Virginia

Construction Cost: \$619,750.00
1,490 Square Feet



Gamma Knife at WVU Hospitals



Gamma Knife
WVU Hospitals
Morgantown, West Virginia



Gamma Knife Radiosurgery *Brain Surgery Without an Incision*

The Gamma Knife is an advanced tool for the treatment of benign and malignant tumors, arteriovenous malformations (AVMs), facial pain, and other functional brain disorders. It is not actually a knife, but a 20-ton medical instrument that emits 201 finely focused beams of gamma radiation. These beams simultaneously intersect at the precise location of the brain disorder and treat it with minimal effect on surrounding normal tissue, and without the risks of surgery or an incision.

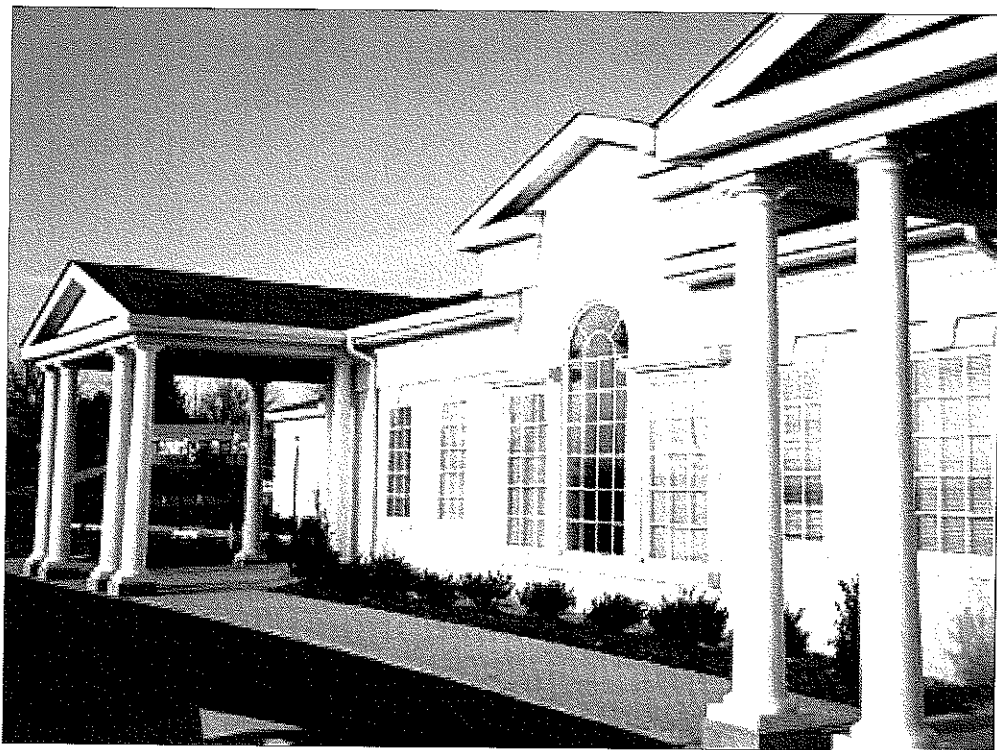
WVU's acquisition of a Gamma Knife has greatly increased our ability to provide the full range of advanced neurosurgical care to patients. Gamma Knife radiosurgery maximizes patient comfort and can treat lesions that were previously inaccessible or treated unsuccessfully by conventional surgery, chemotherapy, or radiation therapy. The surgeon's scalpel is replaced with a single, powerful dose of gamma radiation; a long hospital stay is replaced by an outpatient procedure; a lengthy recovery period is replaced by a quick return to normal activities.

Source: <http://www.health.wvu.edu/services/neuros/neuro3.htm>

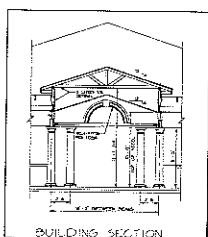
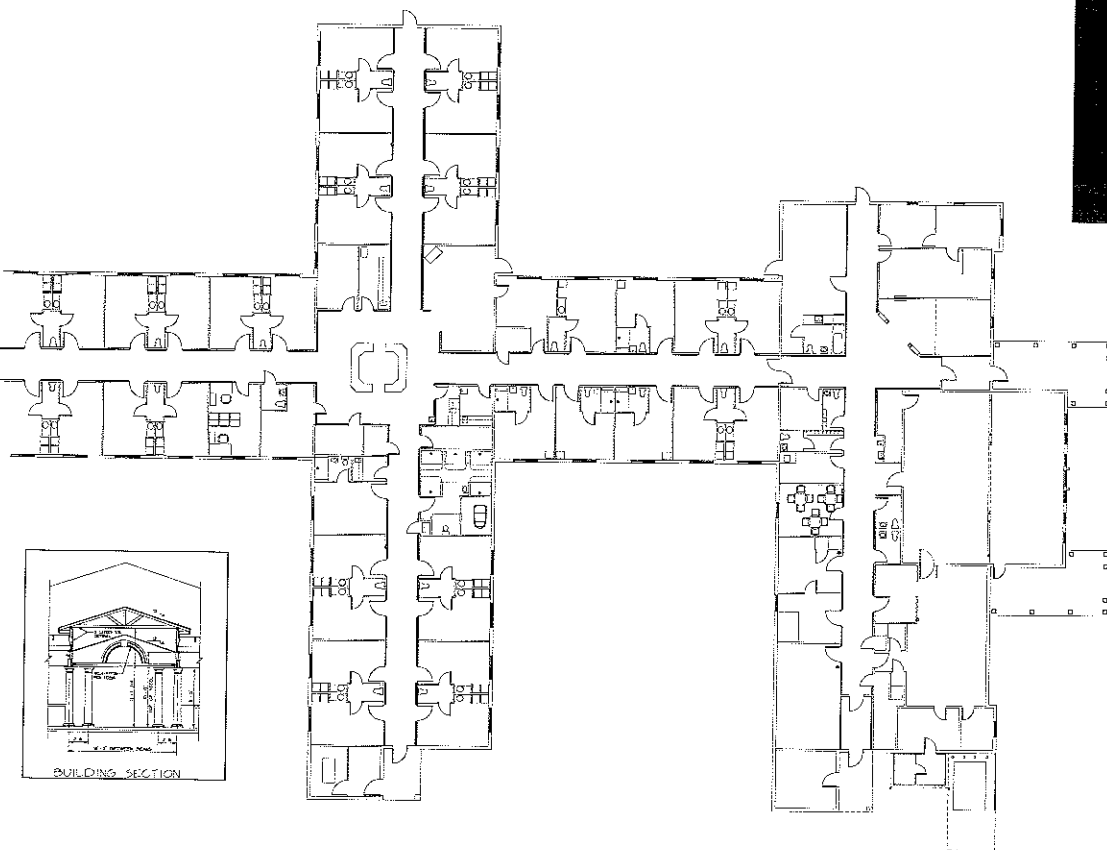
Source (Images): West Virginia University Hospitals Center for Gamma Knife Radiosurgery Marketing Brochure.



The Madison: Nursing & Rehabilitation Center



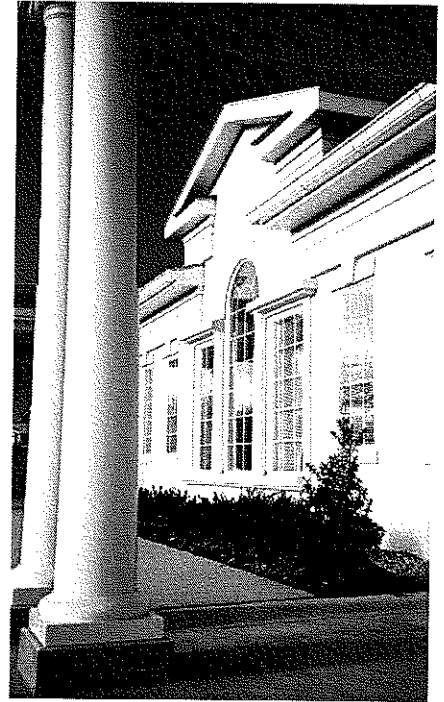
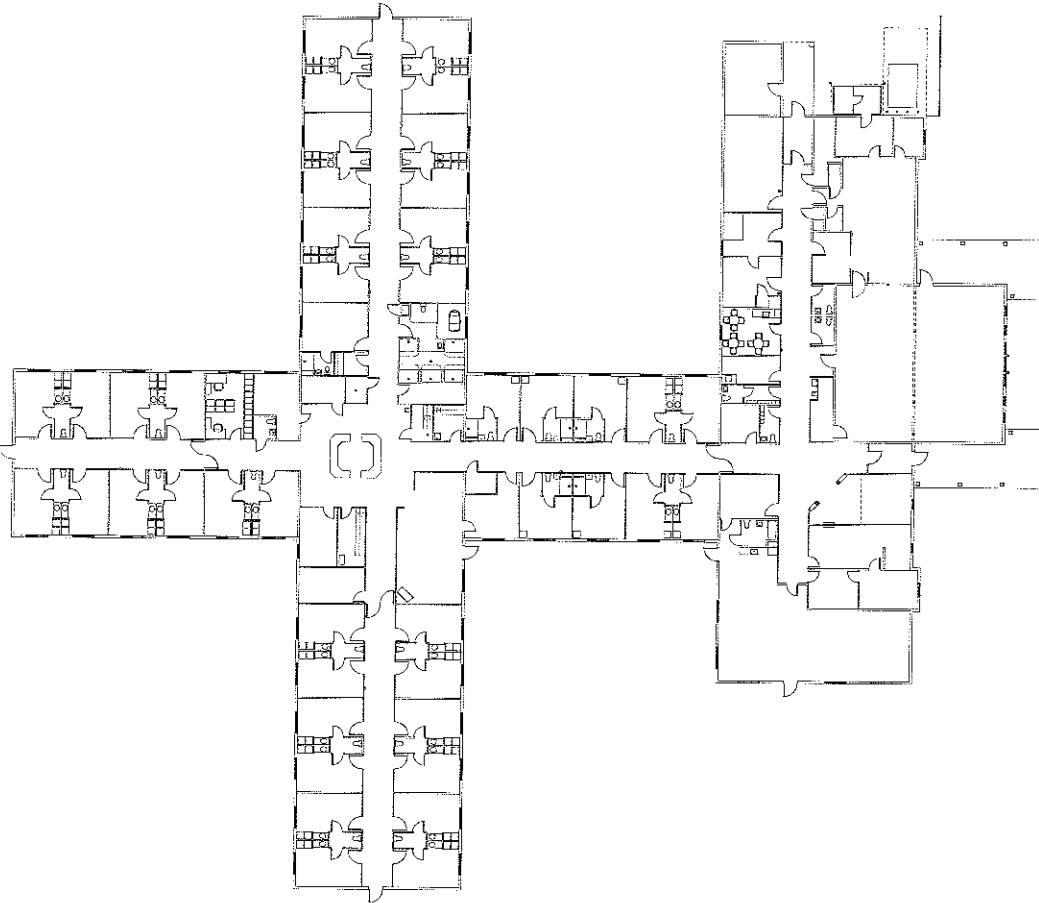
The Madison: Nursing & Rehabilitation Center
Glenmark Associates
Morgantown, West Virginia
62 Bed Facility
23,800 Square Feet



Shenandoah Nursing & Rehabilitation Center



Shenandoah Nursing & Rehabilitation Center
Glenmark Associates
Charles Town, West Virginia
78 Bed Facility
27,677 Square Feet

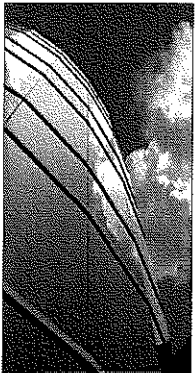


Mylan Pharmaceuticals Executive Offices



Mylan Pharmaceuticals Executive Offices Addition

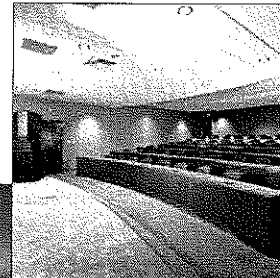
Morgantown, West Virginia
Total Project - 84,860 S.F.
Parking Level - 21,215 S.F.
Three Floors - 63,645 S.F.



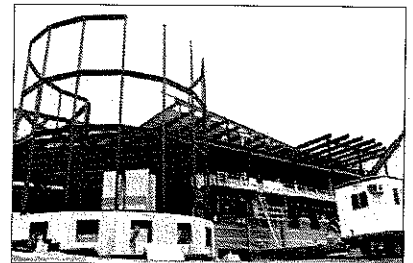
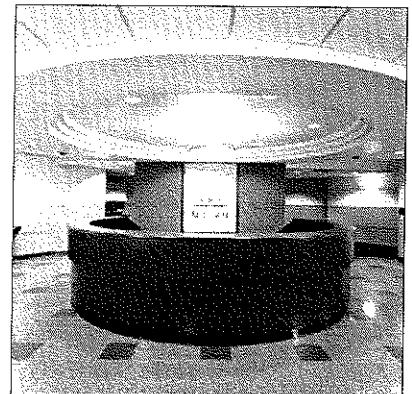
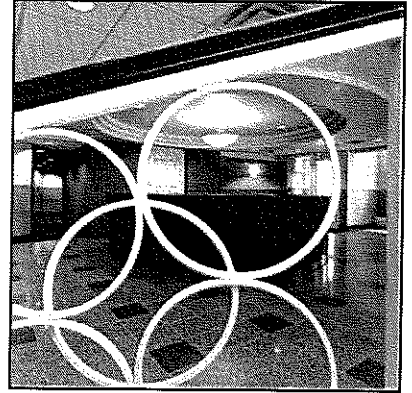
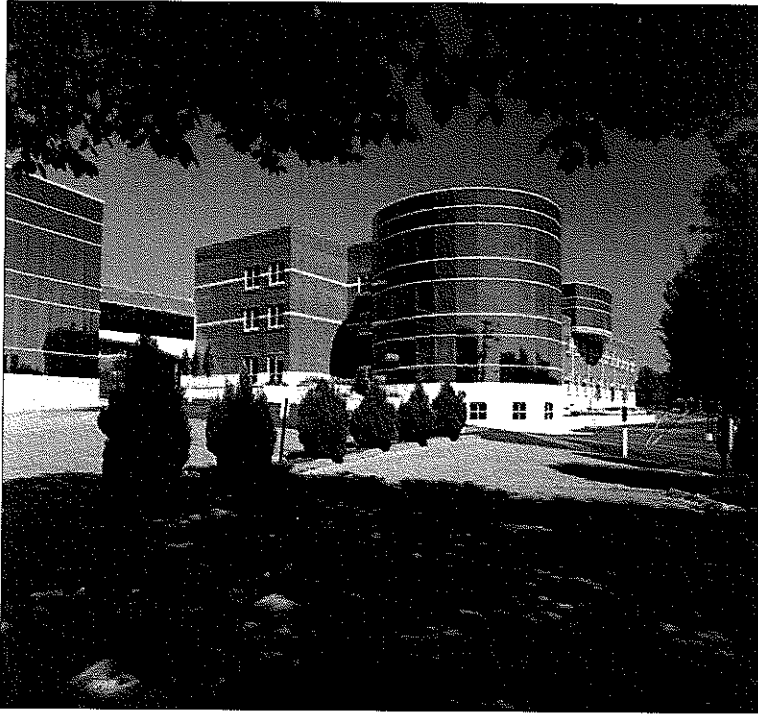
The Omni Associates designed a 63,000 SF four story addition for the existing Mylan Pharmaceuticals Plant. The project was "fast track" design meaning the construction drawings were made during the actual construction. The Omni Associates stayed ahead of the Contractor and enabled the project to be completed on time and within the budget.

The addition contains executive office and board room, training and conference rooms, cafeteria and kitchen, employee locker rooms, research and development area and storage warehouse space.

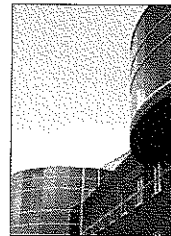
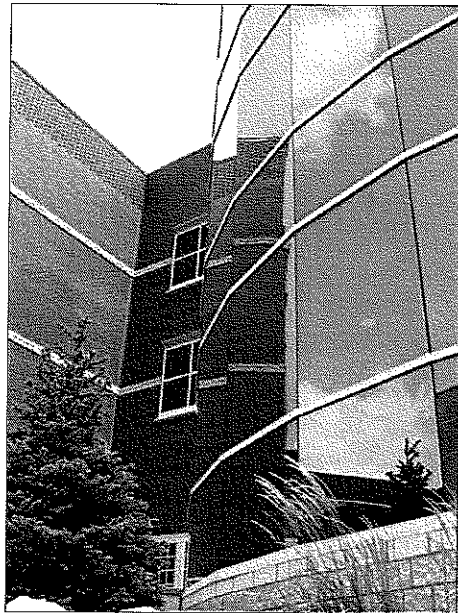
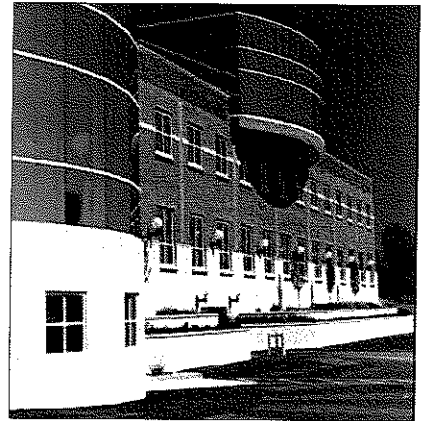
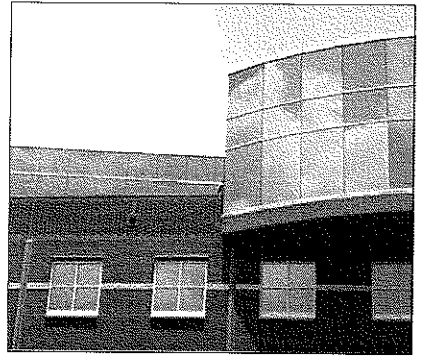
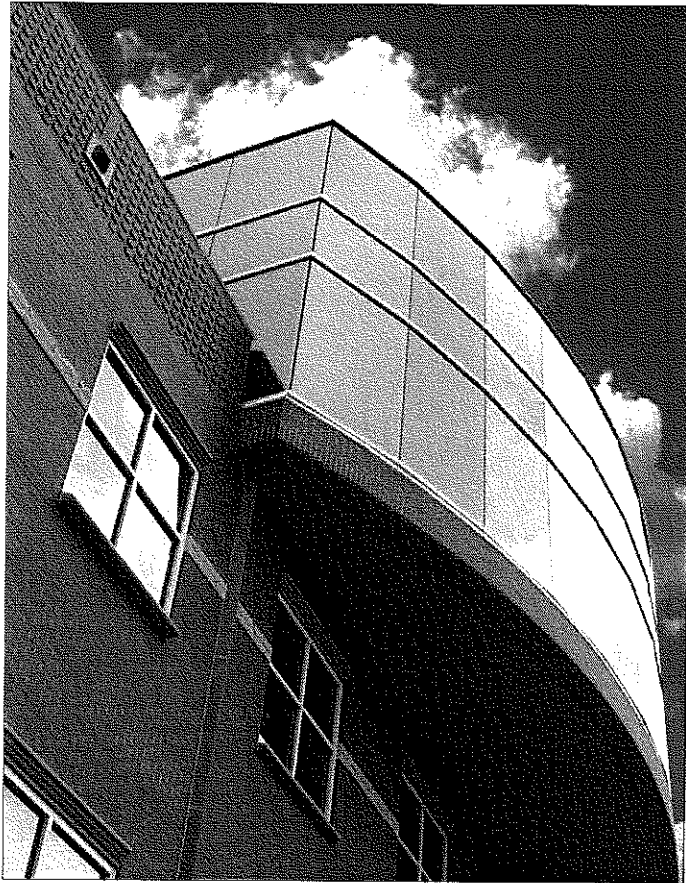
- ◆ Three Stories with lower level Parking Garage.
- ◆ Skywalk connecting second floor to existing Executive Offices
- ◆ Outdoor Dining/ Meeting Balcony on Third Floor



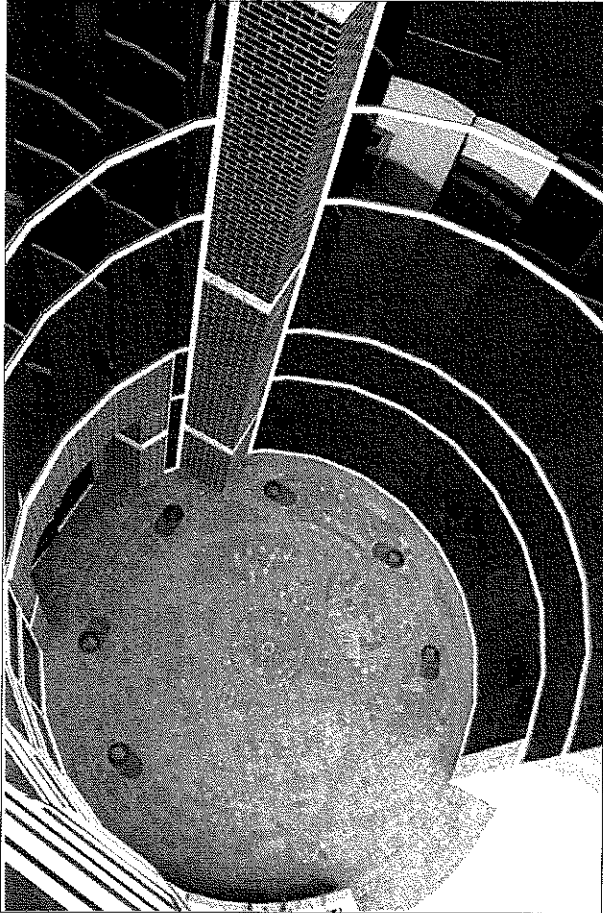
Mylan Pharmaceuticals Executive Offices



Mylan Pharmaceuticals Executive Offices



Mylan Pharmaceuticals Executive Offices



Mylan Pharmaceuticals Executive Offices

Morgantown, West Virginia
Offices: 54,000 S.F.
Warehouse: 9,000 S.F.

Honorable Mention: Excellence In Design

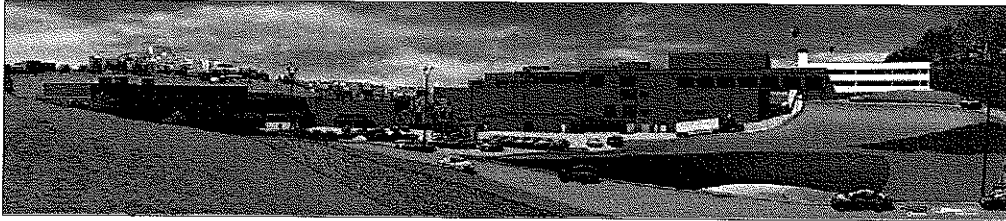
West Virginia Society of The
American Institute of Architects

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Mylan Pharmaceuticals North Expansion



Mylan Pharmaceuticals is the largest generic drug manufacturer in the United States and experienced the need to increase productivity. Mylan Pharmaceuticals planned a major expansion to their manufacturing facility in Morgantown, WV. The 438,300 square foot manufacturing area and the 84,200 square foot high volume warehouse project more than doubled the existing area of the current building complex and allowed for nearly a quadrupling of production capacity.



West Virginia
Chapter

2007 Excellence in Construction Award

Category:
Mega Projects:
More than \$100 Million

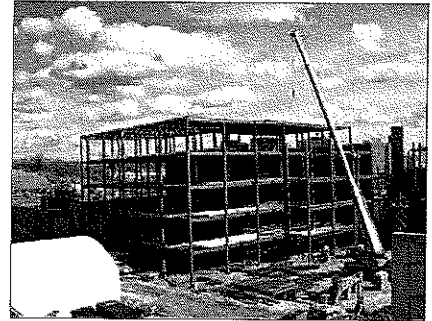
MARCH-WESTIN CO.
(General Contractor)

The overall expansion created a new flow of material and process that not only increased production capacity but reorganized the process and made for better work flow. The new work involves new receiving and shipping docks with associated high volume warehousing. The manufacturing steps from raw material to finish product including sampling, weighing, blending, tableting and packaging are all included. Specialized processes such as fluidization, capsulation and granulation are organized into the work flow as well. Quality control laboratories and operating procedure rooms were designed to be integral with the manufacturing

Due to the significant size of this expansion, other supports and infrastructures needed to be constructed into the planning. A 512 space multi-level parking garage was constructed to provide

to the additional man-power that comes with additional production. This garage is connected to the plant by two bridges to allow better flow of personnel. A new fire water loop with associated fire pumps and reserve water tanks are implemented to maintain fire protection. The creation of new access roads and entrances into the building were part of the design to make the site function to a higher capacity. Specialized high capacity elevators and a five story escalator design will allow the flow of material and personnel to move at an efficient pace.

The five-story addition was started in August of 2002 and was completed in the fall of 2006 as part of a design-build process. The design included the ability to phase various portions of the completion to allow for installing, validating and utilizing manufacturing equipment in stages. This provided immediate production needs while creating room for future growth and implementation of new equipment. The increased staffing needs were met with new training rooms, locker spaces and a 300 seat cafeteria including indoor and outdoor dining space.



**Mylan Pharmaceutical
North Expansion**
Morgantown, West Virginia

Total Project: 513,746 sf
Estimated Construction Cost: \$90 Million





H.F. LENZ
COMPANY

West Virginia University Hospitals
Morgantown, West Virginia

RUBY MEMORIAL HOSPITAL

Ruby Memorial Hospital is one of three hospitals that make up the West Virginia University Hospitals. Ruby Memorial Hospital is a modern facility that houses the Ruby Day Surgery Center, comprehensive cardiac care facilities, and the most current medical imaging system in the state of West Virginia.



The H.F. Lenz Company was hired by West Virginia University Hospitals to perform the mechanical, electrical, plumbing, fire protection and structural engineering services for the \$44 million north/northeast expansion project for Ruby Memorial Hospital. The additions were composed of three floors of Intensive Care Units, six new Operating Rooms, a new CT scan area, an on-call area and a Long Term Acute Care unit.

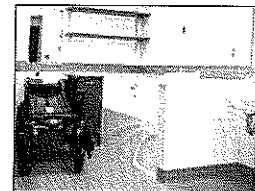
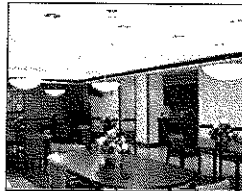
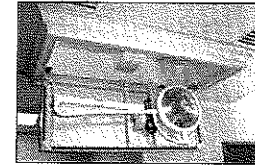
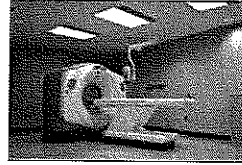
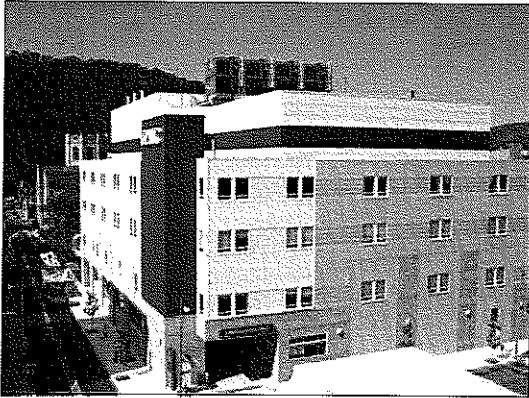
The HVAC design was composed of new steam and chilled water plants which were sized to supply the existing hospital, as well as the new additions. The chilled water plant was designed to provide two 600-ton chillers, with provisions to install two additional 600-ton chillers at a later date to accommodate the future additions. The steam plant also allows for future expansion in that there are two 600 bhp boilers provided under this project, and with a future provision for another 600 bhp boiler in the future. This new steam supply will allow the hospital to be removed from the city steam which previously had supplied the hospital.

The electrical system utilized new parallel 23kV services which supply power to new unit substations inside of the building. The emergency system consisted of two new 800kW diesel generators that were paralleled together via digital paralleling switchgear. This paralleling switchgear features a touch screen that permits the hospital engineer to monitor and troubleshoot the entire emergency system from his desk. It also provides permanent recording of all actions and startups on the system. An integrated nurse call system was also provided which allows the patient calls to be sent out over the nurse's cell phones so as to locate them in an emergency situation. A complete data communications system, which incorporated category 6 cabling and network electronics that were then tied into the existing system, was also designed by H.F. Lenz Company.

The renovation projects totaled more than 47,000 sq.ft. and additions totaled more than 176,000 sq.ft. and included:

- New chapel
- New boiler/chiller plant to serve a total of 878,000 sq.ft. of space
- New conference center with dining facilities
- New building loading docks
- New surgical intensive care unit
- New pediatric intensive care unit
- New skilled nursing unit
- New long term acute care
- New post anesthetic care unit
- Ten new operating rooms and surgery waiting and two renovated operating rooms
- Renovated materials management area

Construction was completed in 2006.



NEW REGIONAL PATIENT CARE CENTER

H.F. Lenz Company provided mechanical, electrical, plumbing, fire protection, telecommunications, civil, and structural engineering services, as well as construction phase services and commissioning for a new six-story, 105,500 sq.ft., \$25 million dollar Patient Care Center for UPMC Lee Regional. The new state-of-the-art facility includes:

Emergency Floor

- X-ray and radiology areas equipped with physician access to computerized software for faster interpretation of x-rays
- CT Scanning Area
- Security room
- Quiet room for doctors to confer with patients' families
- Exam rooms equipped with TV and telephone
- Reception and waiting area (with child play area)
- Vending area

Maternity Floor

- Level III Neonatal Intensive Care Unit to accommodate eight babies (Unit is located on the same floor as mothers' rooms)

- Six labor, delivery, and recovery suites equipped with special exam lighting that can be concealed in the ceiling, and Jacuzzi tubs in each suite
- 16 private postpartum/gynecological rooms
- Dedicated caesarean section surgical suite
- Security locks with card access for baby areas
- Large waiting area for families

Orthopedic Floor

- 29-bed rehabilitation unit with private and semi-private rooms
- Eight private and one semi-private acute orthopedic rooms
- Dining area with kitchenette and adjustable tables to accommodate wheel chairs
- Large gymnasium with special "apartment" area for patients to practice activities of daily living
- Hairstyling area equipped for a hairstylist that comes in and works with patients
- Recreation room with TV and activities area
- Special shower accommodations for disabled patients

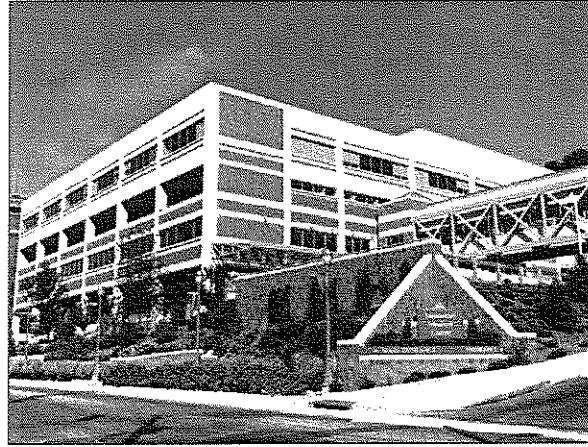


NEW CLINICAL PAVILION

The H.F. Lenz Company provided mechanical, electrical, and fire protection engineering design services for a \$40 million addition to Conemaugh Memorial Medical Center.

The five-story 250,000 sq.ft. addition was completed in 2001. The "Clinical Pavilion" houses the following:

- An underground patient parking area (first floor)
- New Emergency Room/Trauma Center
- State-of-the-art surgical suites (fourth floor) efficiently designed for advances in technology and to accommodate expanding surgical specialties
- New Regional Intensive Care Nursery (fifth floor)
- The fifth floor also has a modern family focused Childbirth Center (labor, delivery, recovery, postpartum, obstetrics/gynecology facility) located adjacent to the Intensive Care Nursery
- New helicopter pad and an on-call trauma team
- New five-story atrium



A new emergency trauma center, pharmacy and maternity ward are part of the five-story, 250,000 sq.ft. addition

The mechanical system consists of a series of air handling units mostly located at the sixth floor penthouse. Heating is provided through an extension of high pressure steam lines from a remote building. The 1330 BHP boiler plant was upgraded to allow for additional leads to the new facility. The existing chilled water plant capacity was increased by adding a new 450 ton chiller/cooling tower, complete control change-out, and a water side economizer.

The addition's electrical distribution system has been upgraded to allow for future connection to the Good Samaritan Medical Center. The 23 kV service enters the building at the 3rd floor main distribution room and has a redundant power source to maintain this highly reliable electric service. Should the need arise for emergency power, a new 1000 kW oil-fired generator is located in the garage.

The project was designed on a fast-track process in conjunction with multiple separate "phasing" projects which allowed for the relocation of services and to efficiently plan for the present and future use of space. These projects included a new operating room, new psychiatric ward, renovated endoscopy suite, and a new information technology suite. The fast-track process also required engineering design prior to completed architectural design and medical equipment packages.

Ongoing renovations to the existing facility comprise an additional \$35 million of construction. Areas of renovation include: radiation oncology, neuro-sciences, morgue, laboratory, administrative areas, and outpatient services.



H.F. LENZ
COMPANY

Children's National Medical Center Washington, D.C.

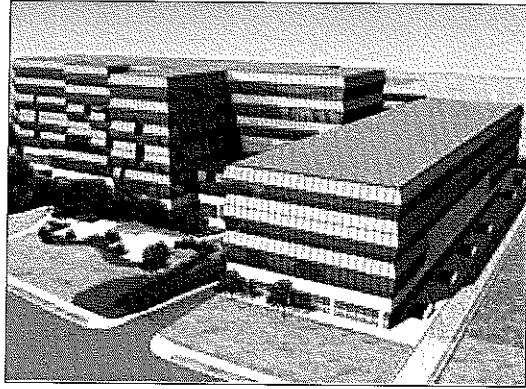
ENGINEER-OF-RECORD

Children's National Medical Center, a 279-bed, 750,000 sq.ft. pediatric hospital, is nationally and internationally recognized as a leader in the development of innovative new treatments for childhood illness and injury. It is ranked among the top children's hospitals in America by U.S. News and World Report.

As the facility's Engineer-of-Record, H.F. Lenz Company is currently providing the mechanical and electrical engineering services for implementing a \$100,000,000 master plan.

Completed projects included:

- 150,000 sq.ft patient tower expansion to house NICU, CICU, Neuro, and medical surgery beds
- New 13,000 sq.ft. Perioperative Suite
- New 20,000 sq.ft. Outpatient Building
- Fifth and Sixth Floor East Addition Shell
- New 6,000 ton chiller plant
- MRI Expansion and renovation
- Facility-wide electrical system study
- New 13.2 kV primary electrical distribution system
- Catheterization lab addition which includes two cath labs and accompanying support services space (new 12,000 sq.ft. addition)
- Speech and Hearing Center expansion and renovation
- Anesthesiology offices
- Blood Donor Center
- Sleep Lab renovations
- New 12,000 sq.ft. perioperative expansion
- Upgrade and expansion of the animal research facility
- Building wide fire alarm replacement and smoke control system upgrade (\$2M)
- Renovation of the existing MRI unit and two CT Scan units to accommodate increased patient volume
- Multi-year Air Handling Unit Replacement Program
- Renovation and upgrade of the Animal Lab in support of a National Institute of Health (NIH) grant
- New Data Center for Main Computer Operations
- Decontamination Facility



Established in 1870, Children's National is still the only health system in the Washington, DC Metro area devoted exclusively to the healthcare of children.



H.F. Lenz Company provided the engineering services for the design of a cable retraction (hoist) system. The staff enjoys easy and secure access for a variety of options to display the six balloons in the lobby using a key operated control panel.

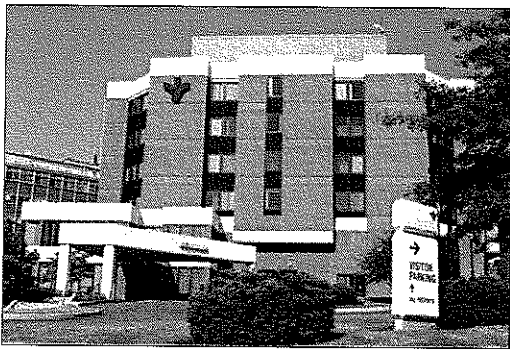


**Allegheny General Hospital
Pittsburgh, Pennsylvania**

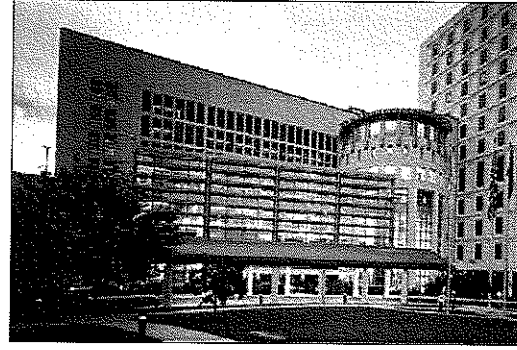
- Congestive heart failure research renovations (8th floor)
- Linear Accelerator equipment change-out
- CT Simulator equipment change-out
- Operating room washer
- Central supply sterilizer
- Same day surgery washer
- CT scan equipment change-out
- BSL-3 Lab HVAC study
- ER observation fit-out
- Joint center plumbing and electrical renovation
- Heritage Hall lighting design
- Cardiac Catherization Lab 5 equipment replacement
- New angiography room
- Installation of new ethylene oxide (ETO) sterilizer in central supply
- Pharmacy renovations
- Renovations for a new bi-plane angiography suite
- Re-routed oxygen line from bulk farm to inside the facility

**Altoona Hospital
Altoona, Pennsylvania**

- Master plan for consolidation of Altoona Hospital and Bon Secours Holy Family Regional Health System
- New seven-story outpatient tower and atrium
- 250,000 sq.ft. addition



Bon Secours Holy Family Regional Health System.
H.F. Lenz Company has completed approximately 80,000 sq.ft. of renovation projects throughout the entire hospital facility



Altoona Hospital. *The addition and renovation project received a Vista Award Honorable Mention presented by the American Society for Health Care Engineering.*

- New and renovated operating rooms
- Emergency room renovations
- New central heating/cooling plant
- Renovation of two patient buildings
- Isolation rooms
- OR exhaust system
- OR air flow study
- Tower building study

**Bon Secours Holy Family
Regional Health System
Altoona, Pennsylvania**

- Master plan for HVAC upgrades
- Comprehensive review of HVAC systems
- Bio-terrorism evaluation of 350,000 sq.ft. facility
- Skilled nursing unit renovation
- Renovation of geriatric psychiatric unit
- MRI suite renovation
- Physical therapy renovations
- HVAC Bioterrorism Study

**Bradford Regional Medical Center
Bradford, Pennsylvania**

- New boiler plant
- Electrical service modifications
- Kitchen wall structural evaluation
- ICU/CCU recovery renovations

**Buffalo General Hospital
Buffalo, New York**

- Installation of new helipad and support services



**Charles Cole Memorial Medical Center
Coudersport, Pennsylvania**

- New 8,000 sq.ft. outpatient clinic
- New 34,000 sq.ft. medical office building
- New 6,000 sq.ft. Women's Health Care Center

**Children's Hospital of Pittsburgh
Pittsburgh, Pennsylvania**

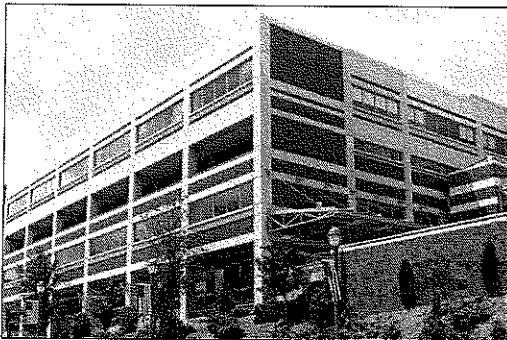
- Master plan studies for upgrading of mechanical, electrical, sprinkler, and fire alarm systems
- 23 renovation projects
- Fire alarm replacement
- New sprinkler system
- Chilled water plant
- Medical gas system replacements
- New outpatient surgery facility

**Children's National Medical Center
Washington, D.C.**

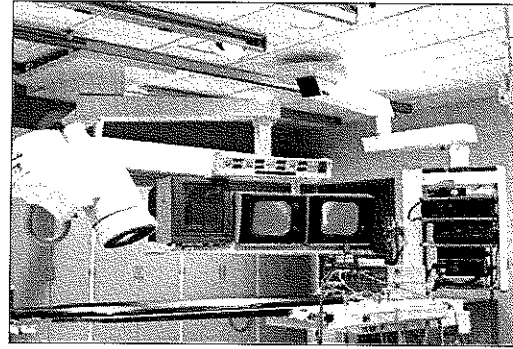
- Two MRI/two CT suites
- Double cath lab suite
- Electrical system study
- Electrical system commissioning services
- Blood donor center
- Master plan for a new 250,000 sq.ft. addition
- Master plan for the renovation of the existing 600,000 sq.ft. hospital

**Christiana Hospital
Newark, Delaware**

- Peer Review
- Operating Room Phase 3 renovations



Conemaugh Memorial Medical Center. A new emergency trauma center, pharmacy and maternity ward are part of the five-story, 250,000 sq.ft. addition.



Children's Hospital of Pittsburgh. Sophisticated engineering design integrates medical gas and electrical services directly into CHP's cardiac catheterization equipment.

**Clearfield Hospital
Clearfield, Pennsylvania**

- Mechanical/electrical renovations

**Conemaugh Health Systems
Johnstown, Pennsylvania**

- Chilled water plant study
- Phase I
- Morgue ventilation
- Mechanical upgrade
- Good Samaritan Educational Library

**Conemaugh Memorial Hospital
Johnstown, Pennsylvania**

- Master plan to integrate Conemaugh Hospital and UPMC Lee facilities for efficient operation of hospital functions
 - Master plan evaluation for the coordination and upgrade to 850,000 sq.ft. campus
- Projects include:
- New Level 1 Trauma Center
 - New Maternity Suites
 - Oncology Center
 - Outpatient Surgery Center

**Conemaugh Memorial Medical Center
Johnstown, Pennsylvania**

- \$40 million, 250,000 sq.ft. trauma center addition
- Executive dining suite
- CAT scan area
- O.R. renovations
- Pharmacy
- Radiography suite
- Mechanical, plumbing and electrical upgrades



**Divine Providence Hospital
Williamsport, Pennsylvania**

- Oxygen service investigation
- 4th floor Wound Center
- Oncology Department CT Scan
- Isolation Room

**Frederick Memorial Hospital
Frederick, Maryland**

- Medical Staff and PPHP Interior renovations
- Wound Care & Diabetes

**Frick Hospital
Mount Pleasant, Pennsylvania**

- Topographical survey for Emergency Department entrance

**Fulton County Medical Center
McConnellsburg, Pennsylvania**

- Mechanical/electrical renovations

**Good Samaritan Medical Center
Johnstown, Pennsylvania**

- Five-story, 24,500 sq.ft. addition
- Renovations to 59,500 sq.ft. wing

**Hamot Medical Center
Conneaut, Ohio**

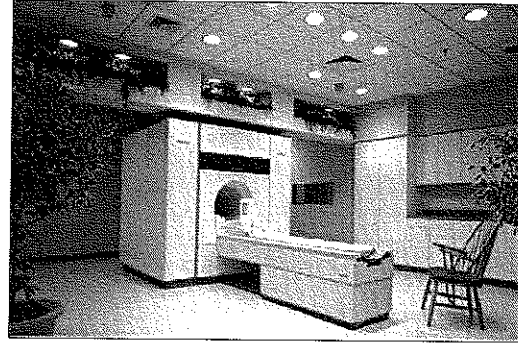
- New 9,800 sq.ft. outpatient clinic

**Hamot Medical Center
Erie, Pennsylvania**

- Ambulatory Surgery Center
- Isolation room study
- Facility-wide sprinkler system
- North wing domestic water study



Hamot Medical Center. The Millenium Project consisted of a \$25 million expansion to the existing building.



Heritage Health System, The Medical Center. An MRI suite, a catheterization lab, and outpatient surgery facilities are part of the new 18,500 sq.ft. addition.

- Endoscopy suite renovation
- Behavioral Health Dept. air handling unit
- Dialysis Unit renovation
- New four-story, 80,000 sq.ft. Heart Institute
- Feasibility Study/Millennium 2000 Project
- New chiller/cooling tower

**Harmarville Outpatient
Rehabilitation Center
Latrobe, Pennsylvania**

- New 12,000 sq.ft. satellite facility

**Heritage Health System, The Medical Center
Beaver, Pennsylvania**

- Facility-wide renovations for patient-focused care program
- MRI addition and associated administrative offices
- Cardiac catheterization laboratory addition
- Outpatient surgery addition
- Recovery area renovation
- Neuropsychiatric unit
- Water service booster system replacement
- Energy evaluation
- Open heart surgery suite
- Sterile processing HVAC study
- Hyperbaric tank installation
- Nuclear medicine renovation
- Electrical substation addition
- Building systems upgrades
- Cancer treatment center
- Labor and delivery suite
- Emergency department
- Sewickley Hospital Survey
- Property survey of entire campus



Heritage Valley Health System - Sewickley Valley Hospital
Sewickley, Pennsylvania

- Utility system master plan for the 400,000 sq.ft. hospital

Indiana Hospital
Indiana, Pennsylvania

- 193,000 sq.ft. addition and renovations
- Radiology suite renovations
- Relocation and installation of new 22.9 kV and 4.15 kV distribution systems
- Boiler replacement
- Geropsychiatric unit
- ER addition

James E. Van Zandt
Veterans Affairs Medical Center
Altoona, Pennsylvania

- Segregate emergency power distribution within the Main Patient Building, Emergency Department, and Ambulatory Surgical Center; included a new 1000 kW generator and automatic transfer switches
- Warehouse building
- New telephone equipment building
- Parking lot addition
- Corrected HVAC deficiencies
- Corrected return air deficiencies
- Corrected air conditioning deficiencies

J.C. Blair Memorial Hospital
Huntingdon, Pennsylvania

- Chiller plant replacement
- Deaerator replacement
- Radiology renovation/study
- CT scanner
- Air handling unit replacement
- Bioterrorism study

Jeanette District Memorial Hospital
Jeanette, Pennsylvania

- Master plan for a ten year strategic plan for the existing facility
- Operating Room air handling unit
- Kitchen exhaust
- HVAC evaluation
- Mechanical/electrical study of the hospital



Indiana Hospital. In the past three years, H.F. Lenz Company has recently completed more than 15 projects for Indiana Hospital.

Jefferson Memorial Hospital
Ranson, West Virginia

- Electrical survey of existing hospital
- 5,000 sq.ft. Emergency Department addition
- Lab renovations
- New Nuclear Medicine Suite

Jersey Shore Hospital
Jersey Shore, Pennsylvania

- Hospital Master plan
- Building renovations

Johnstown Regional MRI Center
Johnstown, Pennsylvania

- Temporary loading dock
- New line holding area
- Topographic survey
- Design review services

Kane Community Hospital
Kane, Pennsylvania

- Master plan for the renovation and/or replacement facility

Latrobe Hospital
Latrobe, Pennsylvania

- Plumbing systems for 3 buildings
- Laboratory HVAC system study
- HVAC system study for Norvely Family Practice
- New outpatient rehabilitation center



Lock Haven Hospital

Lock Haven, Pennsylvania

- 2nd floor Dialysis Center
- Film storage
- Emergency Room study

Martinsburg Medical Office Building

Martinsburg, West Virginia

- New 30,000 sq.ft. medical office facility

Metro Health Center

Erie, Pennsylvania

- Facility sprinklering
- HVAC studies for boiler and chiller systems
- Geriatric psychiatric unit
- Fire alarm upgrade

Medwell Urgent Care Facility

Ebensburg, Pennsylvania

- New 4,000 sq.ft. outpatient facility

Medwell Urgent Care Facility

Johnstown, Pennsylvania

- M/E design for a 3,700 sq.ft. outpatient facility

Millcreek Community Hospital

Erie, Pennsylvania

- Employee entrance design
- Operating Room chiller design
- Humidity study of Operating Rooms

Miners Hospital

Hastings, Pennsylvania

- Waterline replacement
- 68,000 sq.ft., \$9.5 million replacement hospital

Mount Nittany Medical Center

State College, Pennsylvania

- AHU #7 replacement
- Cardio-Pulmonary Medical Gases
- Mammography Suite study
- Lasic Surgery Room
- Emergency Department renovations
- 12 kV primary distribution system replacement study
- Analytic lab UPS system



Miners Hospital of Northern Cambria. This new, modern facility, completed in September 1999, replaced Northern Cambria County's 30-year-old hospital.

- Morgue renovations
- HVAC evaluation of central scheduling area
- Tomo AHU replacement
- CT scan AHU repairs
- TVSS design
- Cooling tower replacement
- Generator #3 replacement
- CT scanner feeder
- Cath lab AHU evaluation
- Evaluation of natural gas service line to kitchen
- New linear accelerator
- Pharmacy study
- Special procedure suite evaluation
- MEP lab revisions
- HVAC recommendations for four offices
- Radiology reading area - structural modifications
- Prosthetics oven ventilation
- X-ray equipment review
- Temperature and humidity controls study for seven ORs
- Replacement of AHU serving MRI computer room
- Evaluation of HVAC systems for Emergency Department
- Study of DDC controls for eight ORs
- SPU replacement study
- AHU replacement study
- UPS evaluation
- Design for 42,000 sq.ft. East Wing Addition
- Oncology Center design



Muncy Valley Hospital

Muncy, Pennsylvania

- Physical Therapy relocation
- Dementia Unit Feasibility Study
- Mobile MRI Outlet
- Medical Arts Building Hardwell Offices
- Emergency Treatment Room
- Emergency Room Renovation

Nason Hospital

Roaring Spring, Pennsylvania

- New building-wide sprinkler system
- New central chillers, air handling units, and EMS system
- Maternity renovations
- CT scan and diagnostic treatment
- Operating room renovations

National Institutes of Health

Nuclear Medicine Area

Bethesda, Maryland

- HVAC upgrade, including replacement of air handling unit, reconfigured ductwork, and backup and emergency power for hood exhaust

Passavant Hospital

Pittsburgh, Pennsylvania

- HVAC evaluation
- Fire alarm upgrade

Plastic Surgical Associates

Johnstown, Pennsylvania

- New 5,700 sq.ft. medical facility

Sharon Regional Health System

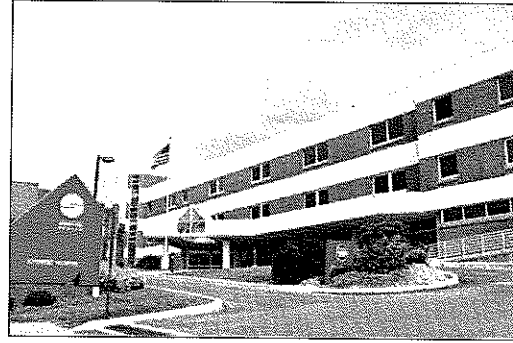
Sharon, Pennsylvania

- Emergency Room expansion and infrastructure improvements
- Radiology addition
- MRI relocation

Somerset Hospital

Somerset, Pennsylvania

- Master plan evaluation resulting in Emergency Department isolation rooms
- Complete building energy evaluation
- Renovate mammography and X-ray rooms
- New Catheterization Laboratory
- 20,000 sq.ft. building addition
- Emergency Department



Somerset Hospital. The new addition includes an MRI suite and outpatient surgery facilities.

- Complete building energy evaluation
- Renovate mammography and X-ray rooms
- New catheterization laboratory
- South wing renovation
- Oncology Center

Stratton Medical Office

Erie, Pennsylvania

- Renovation/design of HVAC, electrical, plumbing, and sprinkler systems to medical offices

Susquehanna Health System

Rural Avenue Campus

Williamsport, Pennsylvania

- Renovation of Vascular Center Cardiologists Office
- New nuclear medicine camera
- Chest X-Ray equipment replacement
- Structural evaluation/study of portable Bariatric OR Table
- New Angiography room fit-out and equipment installation
- Structural evaluation for new nuclear medicine camera
- New Vascular Center
- Cardiology Suite Relocation
- Learning Resources Center
- Physicians Lounge
- CT Scan feasibility study
- Cardiology expansion feasibility study
- Structural analysis for removal of linear acceleration route
- Outpatient canopy
- Campus CVSU and Catherization Lab offices
- Humidity Study



Titusville Hospital
Titusville, Pennsylvania

- Renovation/expansion of intensive care unit

UPMC Bedford Memorial Hospital
Bedford, Pennsylvania

- Master plan consisting of addition and renovation and/or complete replacement of facility

UPMC Lee Regional
Johnstown, Pennsylvania

- New Women and Infant Care addition and alteration
- Neonatal intensive care unit

University of Pittsburgh Cancer Institute
John P. Murtha Cancer Center
Johnstown, Pennsylvania

- Electrical, plumbing, civil, structural, and surveying services for the new building
- Linear Acceleration addition
- Renovation/addition
- Treatment Center
- First Floor redesign
- Meditation Garden
- CT Simulator revisions
- Electrical Services issues

Veterans Affairs Medical Center
Aspinwall Facility
Pittsburgh, Pennsylvania

- Electrical upgrade and expansion
- New boiler/chiller plant complex
- Generator feasibility study
- Technical evaluation and Master Plan for the existing site and 13 buildings
- New 240-bed nursing home care unit



VAMC Highland Drive. The \$38 million renovation project was completed under budget and six months ahead of schedule.



UPMC Lee Regional. The project included a six-story, 105,500 sq.ft., \$19 million dollar Patient Care Center.

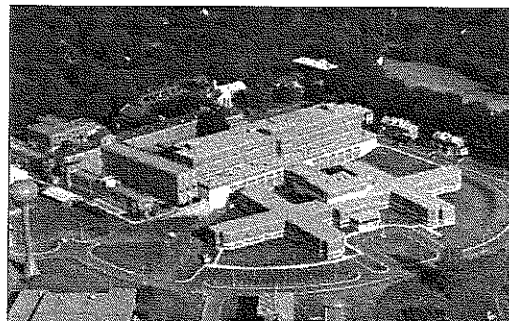
- New four-story Intermediate Care Building
- Renovation of three-story administrative building
- Canteen
- Centralized warehouse technical evaluation and design
- Chapel

Veterans Affairs Medical Center
Butler, Pennsylvania

- Telephone site preparation for 33 buildings
- Chapel
- Library
- Patient bath
- Toilets
- Street lights

Veterans Affairs Medical Center
Clarksburg, West Virginia

- Electrical design



VAMC Aspinwall. The project was completed in three phases to allow all existing buildings to remain in operation during construction.



**Veterans Affairs Medical Center
Highland Drive Facility
Pittsburgh, Pennsylvania**

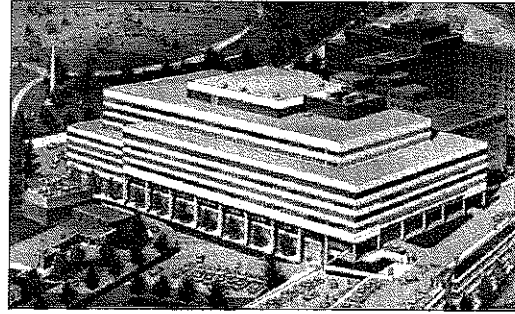
- Technical evaluation
- Renovation of nine buildings housing psychiatric and disabled patients
- Centralized laundry
- Patients' dining room
- Fire safety evaluation system
- Water tank evaluation
- Water supply study
- Day care center, Building 14
- Sprinkler system, Building 7
- Retrofit chillers
- Air flow study, Building 1
- Food tray delivery system
- Audio room/booth, Building 2
- Multipurpose Room, Building 4
- HVAC system, Building 13
- Secondary TB Isolation Room, Building 1
- Study of pressurization problem, Building 1 connecting corridors

**Veterans Affairs Medical Center
Huntington, West Virginia**

- 600-ton chiller and cooling tower addition
- Complete HVAC renovation and upgrade to Building 12
- Chilled water system upgrade, Building 15

**Veterans Affairs Medical Center
Philadelphia, Pennsylvania**

- Upgrade emergency power system, facility wide
- Power factor correction, facility wide
- New 680,000 sq.ft. clinical addition
- New 500-car parking garage
- Technical evaluation
- Chiller study
- New 240-bed nursing home care unit and pedestrian bridge
- New chiller building
- Retrofit of 145,000 sq.ft. in the existing primary building (to 30%)
- Steam line evaluation and replacement
- Relocation of Ward Two South
- Chief of Staff renovation
- Third Floor Research Building renovation
- Upgrade Morgue HVAC, Building 1
- Fire safety evaluation system
- Genitourinary Clinic renovation



VAMC Philadelphia. Our relationship with VAMC Philadelphia began with a comprehensive master plan and preliminary and final design of a \$105 million new construction project.

- Renovation of two catherization labs
- Upgrade of Angiography and Cardiac Rooms
- New Eye Clinic
- Orthopedic Clinic renovation
- Relocation of VA Regional Counsel and EEO Offices
- Upgrade 4 West Neurology
- Nursing home care unit addition
- Chilled water pump replacement, Building 1
- Modify HVAC systems for Women's Clinic, Building 1
- Retail store renovation
- TB isolation room and waiting room modifications, Buildings 1 and 2
- Administrative office expansion, nursing home care unit basement
- Chiller addition and CFC changeout, Building 31
- Main chilled water pump upgrade, Building 31
- Chiller system evaluation, Research Building
- Chiller and cooling tower replacement, Research Building
- Renovate rehabilitation medicine service and relocate prosthetics service, Building 1
- Renovate 1E and Ward 3W and modify HVAC systems, Building 1
- Renovate second floor east, Regional council, EEO
- Chiller/cooling tower replacement, nursing home
- Boiler replacement
- Steam line replacement



**Veterans Affairs Medical Center
Erie, Pennsylvania**

- Pulmonary Care Unit renovation
- Renovation and expansion of specialty clinics
- Installation of UPS in IRM

**Veterans Affairs Medical Center
Martinsburg, West Virginia**

- Cafeteria/dining hall renovation

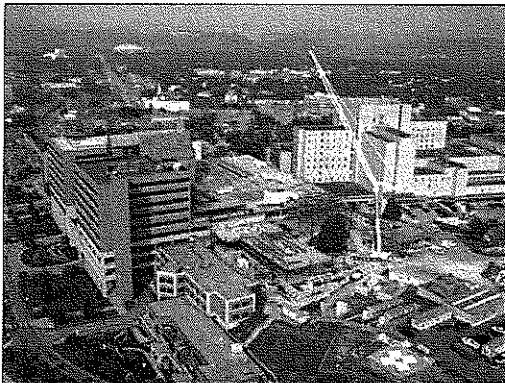
**Veterans Affairs Medical Center
Oakland Facility**

Pittsburgh, Pennsylvania

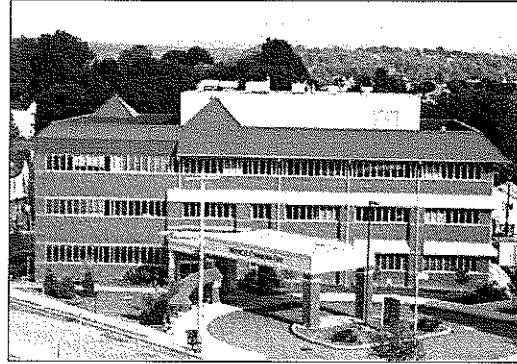
- Technical evaluation and Master plan for the existing facility and proposed addition
- New four-story clinical, education, and outpatient addition
- Retrofit of five floors of the existing hospital
- Renovation of existing chiller building and installation of two new 750-ton centrifugal chillers
- Animal research building
- Centralized laundry technical evaluation

**Westmoreland Medical Office Building
Greensburg, Pennsylvania**

- New four-story, 40,000 sq.ft. medical office building, includes spaces for outpatient surgery and physical therapy



WVUH Ruby Hospital. HFL was hired by West Virginia University Hospitals to perform the mechanical, electrical, plumbing, fire protection and structural engineering services for the \$36 million north/northeast expansion project



Westmoreland Medical Office Building. H.F. Lenz Company provided the complete base building mechanical/electrical design for this new 40,000 sq.ft., four-story medical office building.

**Westmoreland Regional Hospital
Greensburg, Pennsylvania**

- Shearer Street restriping, topographical survey
- North Washington Street redesign
- Washington Street parking lots
- Topographical survey for entrance area of Emergency Department
- Boiler stack replacement
- Stokes Avenue parking lot design
- Shearer Street parking lot reconfiguration

**West Virginia University
Health Sciences Center
Charleston, West Virginia**

- Systems evaluation and design of mechanical/electrical improvements

West Virginia University Hospitals

Ruby Hospital

Morgantown, West Virginia

- \$36 million north/northeast expansion project
- Master plan for the central utilities serving 878,000 sq.ft.
- Engineering design services for a dialysis unit
- Chilled water system study
- Chilled water pump replacement
- Data center emergency generator
- Obstetrics area renovation
- Patient holding area renovation
- Elevator penthouse ventilation



**West Virginia University
Robert C. Byrd Health Sciences Center
Morgantown, West Virginia**

- 1.2 million sq.ft. building evaluation and Master plan
- Miscellaneous space renovations including oral surgery, morgue, and gross anatomy
- Miscellaneous infrastructure upgrades
- Radio and television services master plan

**Williamsport Hospital
Williamsport, Pennsylvania**

- Nuclear Medicine Camera
- OB/GYN 6th Floor
- Pediatric Unit

**Windber Medical Center
Windber, Pennsylvania**

- Dr. Dean Ornish Rehabilitation Center
- Hospice addition
- Senior community center
- Outpatient surgery addition
- Maternity renovations

**Women's Christian Association Hospital
Jamestown, New York**

- New medical office building
- New 12,000 sq.ft. clinical laboratory
- Renovate kitchen/cafeteria