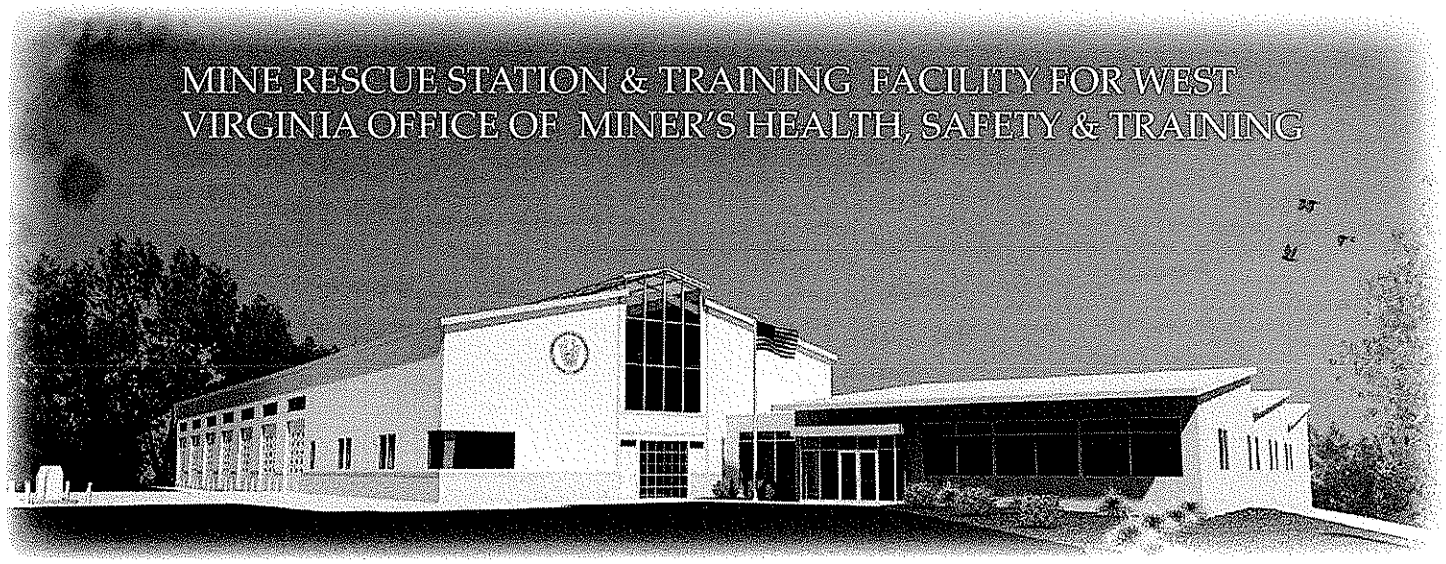
MINE RESCUE STATION & TRAINING FACILITY FOR WEST VIRGINIA OFFICE OF MINER'S HEALTH, SAFETY & TRAINING



STATE OF WEST VIRGINIA
RFQ # HST1012

PERFIDO
WEISKOPF
WAGSTAFF +
GOETTEL

SEPTEMBER 14, 2009

PERFIDO
WEISKOPF
WAGSTAFF +
GOETTEL

September 14, 2009

Frank Whittaker, Buyer
STATE OF WEST VIRGINIA
Department of Administration
Purchasing Division
2019 Washington Street, East
Post Office Box 50130
Charleston, WV 25305

RE: Expression of Interest for Mine Rescue Station and Training Facility for
West Virginia Office of Miner's Health, Safety and Training

Dear Mr. Whittaker and Members of the Selection Committee:

Perfido Weiskopf Wagstaff + Goettel (PWWG) and our consultant engineers are pleased to submit qualifications to provide architectural and engineering services for the planning and design of a new facility for the West Virginia Office of Miner's Health, Safety and Training.

We have carefully examined the RFQ and have assembled a team of architects and engineers who have directly related experience with emergency response facilities, equipment training facilities, classroom facilities, and vehicle and equipment maintenance facilities. The Principal Architect, Project Manager, and Structural and MEP Engineers are currently working together on a heavy equipment training and maintenance facility in Western Pennsylvania that has many parallels with this work, and has been registered with LEED as a sustainable building with Gold status anticipated. Other team experience includes a variety of educational facilities, vehicle maintenance facilities, equipment training and storage facilities, and emergency response facilities including Fire, Police, and National Guard facilities.

Each member of our team is registered in the state of West Virginia. We have ongoing work in Kanawha County. GAI Consultants provides Site/Civil and Landscape Architecture services for this team and would operate from their office in Charleston.

Thank you for your consideration of our credentials for this very important project.

Sincerely,

Sheldon Goettel, LEED AP, AIA
Principal

SG/rg

ALAN WEISKOPF, AIA SHELDON GOETTEL, AIA KEVIN WAGSTAFF, AIA
408 BOULEVARD OF THE ALLIES, PITTSBURGH, PA 15219-1301 412.391.2884 PH 412.391.1657 FX WWW.PWWGARCH.COM

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

Request for Quotation

RFQ NUMBER	PAGE
HST1012	1

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

VENDOR
RFQ COPY
TYPE NAME/ADDRESS HERE

SHIP TO
HEALTH, SAFETY AND TRAINING
OFFICE OF MINERS'
1615 WASHINGTON STREET EAST

CHARLESTON, WV
25311

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
08/19/2009				

BID OPENING DATE: 09/15/2009 BID OPENING TIME 01:30PM

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

ARCHITECT/ENGINEERING SERVICES, PROFESSIONAL

EXPRESSION OF INTEREST
(EOI)

THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, THE WEST VIRGINIA OFFICE OF MINERS' HEALTH SAFETY & TRAINING, IS SOLICITING EXPRESSIONS OF INTEREST FOR ARCHETURAL AND ENGINEERING SERVICES FOR A MINE SAFETY AND TRAINING FACILITY.

EXHIBIT 10

REQUISITION NO.: .....

ADDENDUM ACKNOWLEDGEMENT

I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.

ADDENDUM NO.'S:

NO. 1 .....

BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THE STATE MAY DEEM THE CONTRACT NULL AND VOID, AND TERMINATE SUCH CONTRACT WITHOUT FURTHER ORDER.

NO. 2 .....

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE [signature] TELEPHONE 412 391 2884 DATE 9/14/09

TITLE PRINCIPAL FEIN 251544159

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
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RFQ NUMBER	PAGE
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NO. 3 .....

NO. 4 .....

NO. 5 .....

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

VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE INFORMATION ISSUED IN WRITING AND ADDED TO THE SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.

.....
SIGNATURE

PERRIDO WERKOFF WAGHAFF + GOETTEL
.....
COMPANY

9/14/09
.....
DATE

REV. 11/96

NOTICE

A SIGNED BID MUST BE SUBMITTED TO:

DEPARTMENT OF ADMINISTRATION
PURCHASING DIVISION
BUILDING 15

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
	412 391 2884	9/14/09

TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE
PRINCIPAL	251544159	

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

Request for Quotation

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HST1012	3

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FRANK WHITTAKER
304-558-2316

VENDOR
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SHIP TO
HEALTH, SAFETY AND TRAINING
OFFICE OF MINERS'
1615 WASHINGTON STREET EAST

CHARLESTON, WV
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LINE	QUANTITY	UOP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT

2019 WASHINGTON STREET, EAST
CHARLESTON, WV 25305-0130

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

SEALED BID

BUYER: 44

RFQ. NO.: HST1012

BID OPENING DATE: 09/15/09

BID OPENING TIME: 1:30

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

412 - 391 - 1657

CONTACT PERSON (PLEASE PRINT CLEARLY):

SHELDON GOETTEL

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE [signature] TELEPHONE 412 391 2884 DATE 9/14/09

TITLE PRINCIPAL FEIN 251544159

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

VENDOR
RFQ COPY
TYPE NAME/ADDRESS HERE

SHIP TO
HEALTH, SAFETY AND TRAINING
OFFICE OF MINERS'
1615 WASHINGTON STREET EAST

CHARLESTON, WV
25311 ,

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
08/19/2009				

BID OPENING DATE: 09/15/2009 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
	****** THIS IS THE END OF RFQ HST1012 ****** TOTAL:					NA

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE [signature] TELEPHONE 412 391 2884 DATE 9/14/09

TITLE PRINCIPAL FEIN 251544159 ADDRESS CHANGES TO BE NOTED ABOVE

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

RFQ No. HST1012 18

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

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

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

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

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

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

CONFIDENTIALITY:
The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf.

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

Vendor's Name: PERFIDO WEISKOPF WAGSTAFF + GOETTEL

Authorized Signature: _____ Date: 9/14/09

TABLE OF CONTENTS—MINE SAFETY & TRAINING FACILITY RFQ HST1012

SECTION 1
QUALIFICATIONS

Facilities Design for Heavy Equipment Operation, Safety, and Maintenance Training

CASE STUDY: Facilities Design for Heavy Equipment Safety and Maintenance Training

The team of PWWG Architects, CJL Engineering, and Atlantic Engineering are currently engaged in the design of a facility with strong parallels to the Mine Safety and Training Facility. This project is for the Operating Engineers' 'Joint Apprenticeship and Training Program'. It will provide 24,000 SF of mechanic training and vehicle space, and 18,000 SF of administration and class-room space. It has been registered with LEED and a 'Gold' rating is anticipated.

Like the Mine Safety and Training Facility, this project for the Operating Engineers (OE)

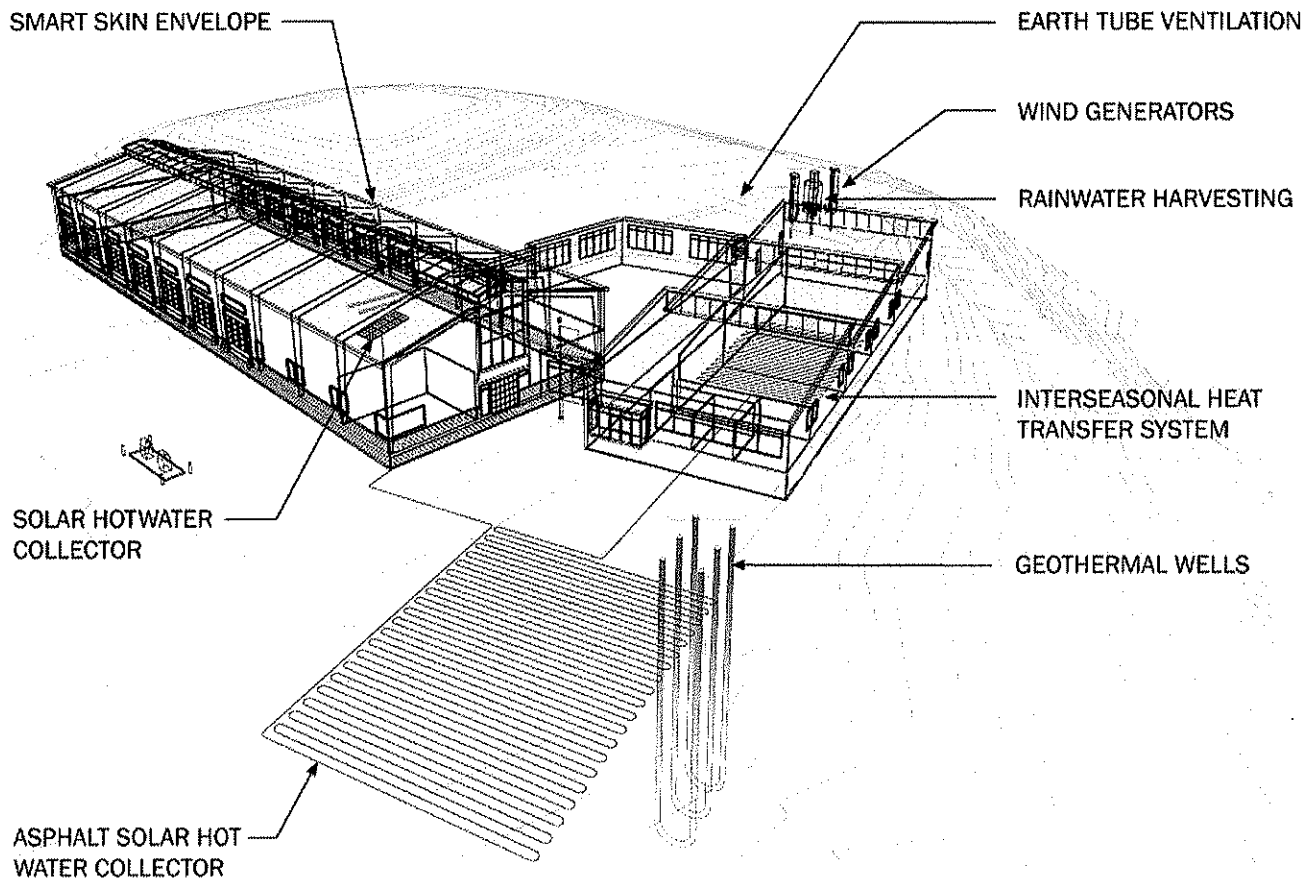
1. Includes maintenance and training areas...for the OE an extensive array of equipment with access to 25 x 80 high, drive–thru bays served by an overhead crane

2. Includes classroom space for a variety of class types and sizes... from 12 to 120 persons and including 'shop' classrooms, expandable classrooms, and conventional classroom environments

3. Includes planned site areas for training on heavy equipment

4. Includes permanent offices for administration

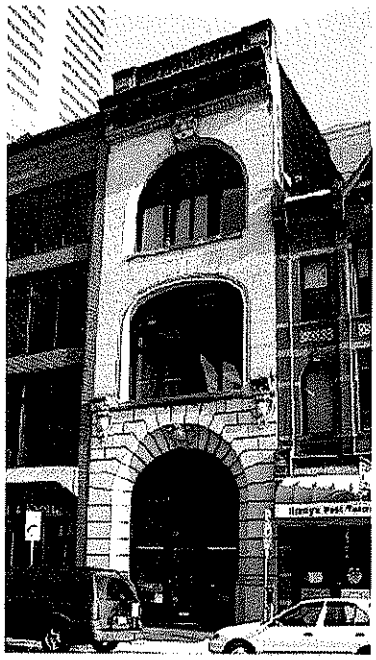
5. Emphasizes operational economy ... follows a sustainable approach to 'smart site', 'smart systems', and 'smart skin' to yield exceptional life-cycle economy



OPERATING ENGINEERS MAINTENANCE & TRAINING FACILITY

Firm Profile

Perfido Weiskopf Wagstaff + Goettel



We are a design firm practicing architecture, planning, and urban design. We were founded in 1975 by Leonard Perfido, now Emeritus. Today we are led by three Principals; Alan Weiskopf, AIA, Sheldon Goettel, AIA, and Kevin Wagstaff, AIA. The full staff includes 9 Registered Architects, 8 Graduate Intern Architects, and 5 business support professionals.

In more than 30 years of practice we have developed a reputation for creative, thoughtful solutions to complex problems, most often involving college buildings, housing of various types, and historic structures. Accordingly we are focused on three main areas of specialization- facilities for higher education, multi-family residential design (including affordable and market rate housing, student housing, senior housing, and luxury condominiums), and the rehabilitation and preservation of historic architecture. We also design hotels, theatres, galleries, stores, and parking structures. Repeat clients include private businesses, institutions, public/ private partnerships, and government.

Our work is guided by 3 principles.

Form-making - We begin with the owner's needs and goals, the project and building type, and the surrounding context. Within these variables we find compelling reasons for some buildings to be contemporary, others traditional, and we work in many styles. What we find constant is the need to bring great usefulness, durability, and architectural clarity to each design. We therefore emphasize the 'craft' of architecture, and believe this approach yields results that are more authentic than work defined by allegiance to any one style.

Interaction - We pay great attention to the connections between buildings and their surroundings, and find that each commission presents unique opportunities. It might be the prospect of a new building forming a court with existing structures, or a chance for a dialogue between new and historic buildings, or an alignment of paths that could connect to a larger setting. It is always our goal that our buildings have an uplifting effect on their surroundings.

Integrated Design - We work in teams that follow projects from the first stages of planning through the completion of construction. The teams include all the necessary disciplines in a design process that is collaborative and highly interactive. Each team member understands the effect of their contributions on the design and the coordination of their work with others. The results are durable high performance buildings that are constructed on budget, with low operating and environmental costs, and that provide memorable settings for their occupants.

Perfido Weiskopf Wagstaff + Goettel is located in downtown Pittsburgh in a former City firehouse that dates from the 1890s. The high-ceilinged engine and crew rooms serve as our studios where we work together in an open office environment. We are equipped with state-of-the-art technology, utilizing networked PCs, and we are continually improving that technology in synchrony with new innovations in hardware and software. Depending on client need, the firm can use 'Building Information Modeling' (BIM) design tools, via *Revit* software, or the more traditional *AutoCad* software. In either case we use 3-dimensional modeling as a design tool, and we prepare photo-realistic images and virtual tours of design proposals.

CJL ENGINEERING

Mechanical/Electrical/Civil Consulting Engineering

CJL ENGINEERING is a multi-disciplined Mechanical/Electrical/Civil consulting engineering firm that offers a full range of services, including analysis and concept, construction budgeting, detailed construction documentation and construction administration. With offices in Pittsburgh, Johnstown, PA, and Youngstown, OH, CJL has a combined staff of over 100 personnel. The original office was established in 1938.

CJL ENGINEERING has substantial experience in the design, construction and commissioning of high performance and LEED® certified buildings, emphasizing integrated design and operational strategies for sustainable site development, water conservation, energy efficiency, resource conservation, and indoor environmental quality.

GAI CONSULTANTS, INC.

Civil Engineering/Landscape Architecture/Environmental

gai consultants
transforming ideas into reality

GAI Consultants, Inc. delivers professional and personalized consulting in the fields of engineering, planning, environmental, and construction services. Our clients are provided exceptional value through full-service capabilities, state-of-the-art design, and talented, experienced staff.

Our Clients. We take great pride in serving both public and private sector clients with whom we have developed long-term relationships. These include public utilities, transportation departments, federal, state and local governments, private developers, and private corporations. Our People. Our employee-owned firm consists of a team of more than 450 highly dedicated and talented engineers, scientists, planners, environmental specialists, construction specialists, and support staff that are known for their solid professional reputations, and personalized quality service. Our Ideals. Built on 45 years of a strong vision and mission, GAI's ethics, principles, and core values guide us and our work. We are committed to the success of our clients and our employees. Quality, respect, innovation, and teamwork are the values that drive our company. Our Work. Simply put, we are in this business to deliver successful projects to our clients, and to help them exceed the expectations of the communities that they serve. We have an office in Charlestown, WV.

ATLANTIC ENGINEERING SERVICES, INC.

Structural Engineering

Atlantic Engineering Services
AES

Atlantic Engineering Services, with offices strategically located in Pittsburgh, Jacksonville and Washington, D.C., provides consulting structural engineering services to the entire eastern portion of the U.S. including Boston, Minneapolis, Philadelphia, Cleveland, Norfolk, Charlotte, Birmingham, Orlando and Miami.

The organization's clients benefit from proactive structural engineers dedicated to searching out optimal solutions. The interaction of these engineers with other disciplines along with regional experience allows for enhanced design economies. Continuous interaction between designers and trained field observers helps assure that the design intent can be quickly understood and properly executed.

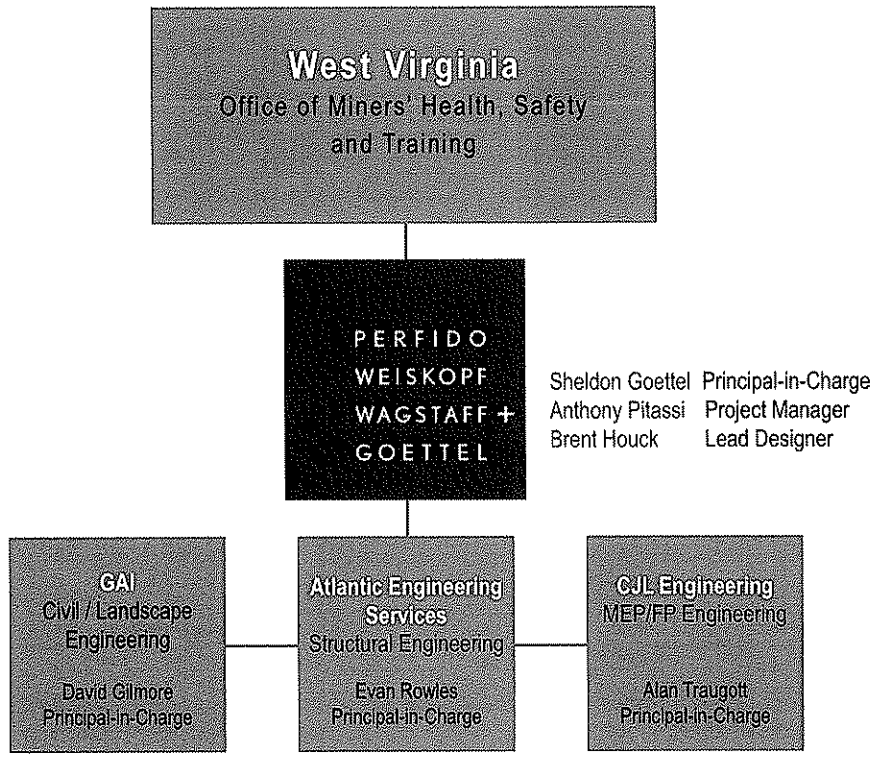
The practice is founded on the stable principals of synergy, creativity and timeliness. This successful philosophy is exemplified in more than 7,000 completed projects with a total constructed value of more than $8.2 billion. The projects constructed over the past 38 years have been as high as 30 stories with a construction cost of more than $120 million. Our experience includes hospitals and other medical facilities, laboratories, facilities of all kinds at institutions of higher learning, corporate offices and corporation headquarters, retail and warehouse facilities, distribution centers, telecommunications facilities, churches, recreational facilities, hotels and dormitories, residential structures of all types, and a range of military projects from housing replacement to carrier support facilities and airfield control.

Our projects also include restorations of many historic structures, several of which are on the National Register. AES's specialized approach to building preservation and restoration enables us to bring new life to old structures. This also applies to many of the non-historic renovations as well, where the real mark of excellence is often economy and simplicity of execution.

AES uses state-of-the-art technology to increase the firm's ability to creatively engineer structural solutions for building designs. Our analytical productivity and project delivery is further increased by the use of data transmission and project collaboration opportunities on the Internet. Please take a moment to visit our web site at www.atlanticengineering.com.

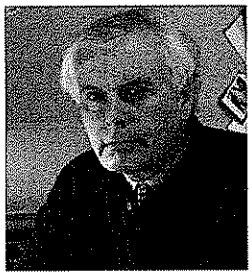
SECTION 2
STAFF AND RESOURCES

Organization Chart



Sheldon Goettel, AIA, LEED AP

Principal **Perfido Weiskopf Wagstaff + Goettel**



Education
Carnegie Mellon University
Master of Architecture, 1979
Washington & Jefferson
College Bachelor of History, 1972
Registration
Registered Architect in PA & NY
Professional Associations
NCARB Certification
American Institute of Architects
Carnegie Mellon University, Adjunct Professor of Architecture

Sheldon has been in the continuous practice of architecture since 1979. Sheldon joined the firm in 1989 and became a Principal in 2000. He has served as the Project Architect or Principal-in-Charge of many of the firm's most significant housing and planning projects. He has experience in a wide range of project types including community master planning, community and multi family housing, the adaptive reuse of buildings including historic structures for a wide variety of occupancies, and building forensics and corrective reconstruction. Sheldon served as an Adjunct Professor of Architectural Design in the School of Architecture at Carnegie Mellon University from 1990 to 2007. He is a graduate of Leadership Pittsburgh. He is a member of the Board of Pittsburgh Filmmakers / Pittsburgh Center for the Arts, and he served as President of the Board of Pittsburgh Filmmakers from 2000 to 2004.

Notable Project Experience:
College of Fine Arts Renovation, CMU - Code and Accessibility renovations in an iconic historic building
Warner Hall Study, CMU - Comparative analysis of options for reuse of 1960s era administration building
Resnick Dormitory Renovation, CMU - Forensic analysis and remedial reconstruction of failed masonry structures
The Palace Theatre Restoration, Greensburg, PA - seven year multi-phase project including back-of- house, house, and stage renovations
Mt. Alvernia Motherhouse Renovation, Pittsburgh - renovation of a circa 1900 convent and design of new Nursing Home
Little Sisters of the Poor, Pittsburgh - new construction, renovation, and restoration for skilled care, senior apartments, offices and chapel
R.B. Harrison Village Reconstruction, McKeesport - Master Planning & building design for renovation of 5 apt. buildings
Fayette County Housing Authority, Master Planning - leading to projects for 3 new neighborhoods
Glen Hazel High Rise Renovation, Pittsburgh - complete renovation of a fully and continuously occupied high-rise
Oak Hill, Phase II, Pittsburgh - Master Planning for more than 450 new dwellings in 7 sub phases
West Park Court, Pittsburgh - Design and installation of advanced 'rainscreen' walls on a fully occupied high rise
Steel City Terrace, Pittsburgh - A 156 unit HOPE VI new neighborhood accomplished in 4 continuous phases

Anthony Pitassi, AIA, LEED AP

Associate **Perfido Weiskopf Wagstaff + Goettel**

Education
Kent State University
Bachelor of Architecture, 1989
University of Pittsburgh
Bachelor of Arts
Architectural Studies, 1986
Registration
Registered Architect in PA
Professional Associations
American Institute of Architects

Tony Pitassi is a Senior Project Manager with 20 years of experience in a wide range of building types including new construction and renovation. He has extraordinary experience with both corporate and public clients, public agency leaders, and stakeholder groups. He joined PWWG in 1998 and continues to serve as project manager from the initial proposal through design and construction administration phases to project close-out for each project. Project types include a wide spectrum of typologies, size and budgets including multi-family housing, commercial offices, institutional, hospitality, adaptive reuse and historic rehabilitations ranging from $.5M to $45M. In addition, he has managed a variety of project delivery methods including, design / bid / build, design-build, GMP and negotiated contracts.

Notable Project Experience:
College of Fine Arts, Carnegie Mellon University, Pittsburgh – code compliance modifications to historic building
FORE Systems, Warrendale, PA – corporate campus office buildings No. 5 & 6
Ericsson, Warrendale, PA – corporate office interiors
Palace Theatre, Greensburg, PA – additions and renovations of historic theatre, lobby and administrative spaces
Courtyard by Marriott Hotel, Pittsburgh – adaptive reuse of historic landmark building for 182-room hotel
Holiday Inn Hotel & Suites, Beckley, WV – 110 room hotel with full service restaurant and indoor pool
Country Inn & Suites, York, PA – 67 room hotel and indoor pool
Country Inns & Suites, Gettysburg, PA – 83 room hotel and indoor pool
Crescent Court Condominiums, Pittsburgh – 36-Unit Condominium with 50-car indoor parking garage
1660- 1680 Murray Avenue Condominiums, Pittsburgh – 28-Unit Condominium with 44-car indoor parking garage
Penn's Common Court, Reading, PA – senior housing exterior envelop replacement of failed EIFS system
Penn State Altoona Community Arts Center Addition, Altoona, PA – dance studio, gallery an scene shop
Riverview Center, Morgantown, WV – 600 bed student housing high-rise
Little Sisters of the Poor, Pittsburgh – interior renovations for offices, community activities and apartments

Brent Houck, Associate AIA, LEED AP

Associate **Perfido Weiskopf Wagstaff + Goettel**

Brent joined PWWG 2 years ago as a Graduate Architect out of Carnegie Mellon University. He has had involvement in a variety of projects, including multi-family housing and hospitality. Brent was responsible for Schematic Design, Design Development, and the production of Construction Drawings for the Phase I Renovations and Additions at Vermeire Manor Apartments, in Sharon, PA. He followed the project through construction, working in Construction Administration for the Phase I additions. Brent was also responsible for the design process and the production of contract documents, including drawings and specifications for the second phase of work at Vermeire Manor. He was also involved in the Design Development, Construction Documents, and Construction administration phases for the Best Western University Park Inn & Suites project in State College, PA. Brent also has significant experience with the LEED rating system for green buildings and was responsible for the LEED documentation process on the Oglebay Hall project at West Virginia University.

Notable Project Experience:
Oglebay Hall (LEED process)
Laurel Estates
Vermeire Manor Apartments, Phase I
Vermeire Manor Apartments, Phase II
Best Western University Park Inn & Suites
Drake Well (construction drawings)
Eastside Planning Study (various studies for development)

David Gilmore, RLA, CLARB

Landscape Architectural Services Manager; Land Development Services Manager

---

Education

BSLA, College of Agriculture & Forestry, 1988 West Virginia University

Professional Affiliations

American Society of Landscape Architects, ASLA
WV Chapter of American Society of Landscape Architects
Council of Landscape Architectural Review Board, CLARB

Professional Development

WVASLA State Licensing Board Member, 2003-2006
Past President, WVASLA
Executive Committee Member, WVASLA
Chairman, WVASLA Licensing and Sunset Review Committee
Judge, Senior Design Awards, West Virginia University

Registrations

Council of Landscape Architectural Registration Board Certified
West Virginia Professional Landscape Architect No. 247
Indiana Professional Landscape Architect No. LA 20700137
Pennsylvania Professional Landscape Architect No. LA 002737

Awards

- Merit Award (WVASLA): 'Hyper' Employee Plaza, Main Entrance Improvements
  Client: Dupont Company
- Merit Award (WVASLA): Florida Street Revitalization Master Plan
  Client: West Side Neighborhood Association

Professional Experience

Mr. Gilmore has 20 years of experience on a diverse range of projects encompassing all aspects of land development and landscape architectural design in both the public and private sector. Experience includes, but is not limited to: project and office management, construction document and technical specification preparation, site analysis, schematic design, construction administration, master & land-use planning (resort, parks, recreational, residential, industrial, commercial), streetscape and municipality improvements, landscape and hardscape design, graphic presentation drawing.

Campus Planning / Institutional / Hospitals:

- Dow - South Charleston Plant
- Beckley Federal Courthouse Security Upgrades
- Charleston Area Medical Center Memorial Park
- King's Daughters Medical Center
- WVU Gateway Study
- Town of Fayetteville Cemetery Master plan
- Trinity Lutheran Church Columbarium Master Plan
- First Presbyterian Church Columbarium Master Plan
- Yeager Airport Master Plan
- The Church of Jesus Christ of Latter-Day Saints, Multiple Projects
- Marshall University Dormitory / Alumni Center
- West Virginia University Dormitory, Evansdale Campus
- West Virginia University Dormitory, Downtown Campus

- Potomac State Dormitory
- West Virginia State Student Housing, Institute, West Virginia

Parks & Recreation:

- Stonewall Jackson State Park Masterplan, Roanoke, West Virginia
- Dow Heritage Park, Charleston, West Virginia
- Charleston Area Medical Center General Division Employee Park, Charleston, West Virginia
- Dupont 'Hyper' Plaza, Belle, West Virginia
- Ohio to Erie Trail, Multiple Counties, Ohio
- Coonskin Park , Charleston, West Virginia

Development / Site Planning:

- Cheat Landing Office Park, Morgantown, West Virginia
- The Villages at Cheat Landing, Morgantown, West Virginia
- Stonegate at Cranberry, Cranberry Township, Pennsylvania
- Chesapeake Energy Regional Headquarters, Charleston, West Virginia
- Chesapeake Energy Field Office, Jane Lew, West Virginia
- Chesapeake Energy Field Office, Mount Morris, Pennsylvania
- Chesapeake Energy Field Office, Honey Branch, Kentucky
- Ridge Run @ North Camp, Wisp Ski Resort, Deep Creek Maryland
- Cambridge Place Office Park, Bridgeport, West Virginia
- Stonewall Jackson State Park Masterplan, Roanoke, West Virginia
- Land-use Study / Development Alternatives, Aspen Corporation, Lewisburg, West Virginia
- Commerce Park Mixed-use Development Masterplan, Huntington, West Virginia
- Fort Boreman Mixed-use Development Masterplan, Parkersburg, West Virginia
- Wilkerson Dental Office, Charleston, West Virginia
- Ocean Isle Beach Resort Masterplan, Ocean Isle, South Carloina
- 5/3 Bank, Cross Lanes, WV.
- Banc One, Teays Valley WV

Streetscape / Urban Revitalization:

- Pennsylvania Street, Carmel Indiana
- St. Albans Master Plan, St. Albans, WV.
- St Albans Phase I
- St. Albans Phase II
- Pennsylvania Avenue Gateway, Charleston, WV
- Florida Street Revitalization Master Plan, Charleston, WV.
- Williamson Master Plan, Williamson, WV.
- MacCorkle Avenue Greenspace Improvements, Kanawha City, WV.
- Kanawha Valley Rapid Transit Shelter/Plaza Design

Residential Planning & Landscape Design:

- < 500 Projects

Robert W. Bruhn, P.E.

Director of Geotechnical Engineering

Education

B.S. Geology 1967, University of Wisconsin-Milwaukee

M.S. Civil Engineering 1969, Massachusetts Institute of Technology

A.B.D. Civil Engineering, Carnegie Mellon University

Registrations/Certifications

Professional Engineer, PA 1982, No. 031019-E

Relevant Training/Courses

Advanced Project Management Training, GAI Consultants, Inc., 2009

Affiliations

American Society of Civil Engineers (ASCE), Member

ASCE Publications Committee, Journal of Engineering Technology, Past Member

Society of Mining Engineers (SME), Member

American Society of Rock Mechanics, Member

Association of Engineering Geologists (AEG), Member

AEG Allegheny-Ohio Section, Past Chairman

Geological Society of America (GSA), Member

Previous Employment

U.S. Army Corps of Engineers, Baltimore District, 1972-1974

U.S. Army Corps of Engineers, Missouri River Division, 1969-1972

Summary

Mr. Bruhn specializes in geotechnical engineering, particularly subsidence above active and abandoned mines and in mining-related activities. He has studied subsidence above mines in Pennsylvania, West Virginia, Ohio, Kentucky, Illinois, Virginia, the United Kingdom, and India. Mr. Bruhn is a nationally recognized expert in subsidence engineering and has written numerous technical articles that have been published concerning subsidence and its effects on structures and on the ground water regime. This experience extends to the stabilization of abandoned underground mine workings and to the control of mine fires in such mine workings. Mr. Bruhn designs and interprets subsurface rock instrumentation and testing programs for dams and tunnels, rock cuts, and mines. He prepares specifications and design memoranda on field instrumentation of rock, and rock testing and support; and geologic mapping of joints, faults, and rock types in rock slopes and tunnels.

Mr. Bruhn's background in soil and rock mechanics has led to extensive involvement in slope stability analysis and design, foundation and ground water investigations, field surveys of subsurface conditions, geophysics, and field and laboratory instrumentation and testing. He has prepared numerous expert reports on geotechnical matters and provides court testimony on the subject. Mr. Bruhn performs building distress investigations. He has investigated lateral deflection and cracking of subgrade walls due to excessive earth pressures, slab-on-grade floor uplift due to the presence of expansive subgrade materials, wall distortion and cracking due to settlement of compressible fill and mine subsidence, and wall cracking attributed to surface mine blasting and detonation at an explosives factory. Mr. Bruhn has been involved in numerous investigations of mine-related ground movement and mine fires in Pennsylvania, Ohio, Kentucky, and Michigan for the U.S. Office of Surface Mining (OSM), and was the principal author of *The Guidance Manual on Subsidence Control* prepared for the OSM.

James Hemme, P.E., L.R.S.

Environmental Services Manager

Education

B.S. Civil Engineering, 1989 West Virginia University Institute of Technology
Marshall University Graduate College – Various Courses in Environmental Engineering

Registrations

West Virginia Professional Engineer No. 12195
Kentucky Professional Engineer No. 25437
Ohio Professional Engineer No. 72851
Indiana Professional Engineer No. 10809277
Pennsylvania Professional Engineer No. 75494
New York Professional Engineer No. 85794
West Virginia Licensed Remediation Specialist No. 003

Professional Development

OSHA 40 hour Hazwopper Training
NICET 1 – Geosythetics Installation Inspection (expired)
Nuclear Density Gage Training – DOT and NRC (expired)
MSHA Safety Training (expired)

Previous Employment

2000 to 2006	Environmental Design Group (now Floyd Browne Group) – Project Manager
1997 to 2000	Potesta and Associates – Project Manager
1995 to 1997	Terradon Corporation – Senior Engineer
1990 to 1995	Joyce Engineering – Senior Engineer
1989 to 1990	Dewberry and Davis - Engineer

Awards

- National Radio Astronomy Observatory (NRAO) Wastewater Treatment Plant Design (Project Manager) – WV ACEC Gold Award
- Florida Street Streetscape Masterplan (Senior Engineer) - WV ASLA Honor Award
- Dupont Hyper Plaza Design (Senior Engineer) – WV ASLA Honor Award
- Kanawha Trestle Rail Trail Masterplan (Project Manager) – WV ASLA Merit Award and WV ACEC Silver Award
- April Dawn Park Sprayground "Teays Valley Monster" (Senior Engineer)–WV ASLA Honor Award and WV ACEC Gold Award
- Coldwater Creek Distribution Center Site Preparation (Project Manager) – WV ACEC Gold Award

Professional Experience

Mr. Hemme has a wide variety of experience with environmental, civil engineering, site development, streetscape, and planning projects while at GAI and through previous employment. He has worked extensively with private developers, architects, municipalities and governmental agencies. He is an expert in site engineering, NEPA compliance and storm water management. He has worked on landfills, quarries, mines, industrial, and commercial facilities. He has performed many Phase 1 environmental site assessments; solid waste, industrial waste, erosion and sediment control permitting; designed extensive storm water management systems; designed both large and small site developments ranging from 1 acres to over 60 acres in size; designed wetland mitigation areas; assisted in the preparation of geotechnical reports; flood plain modeling, highway/roadway design, right-of-way plans, prepared detailed construction plans and cost estimates for projects ranging from $10,000 to over $2 million in cost.

C. Elwood Penn, IV, PE

Managing Officer / Assistant Vice President

Education

B.S. Civil Engineering, 1985 Virginia Polytechnic Institute and State University

Professional Affiliations

National Society of Professional Engineers
American Society of Civil Engineers
West Virginia QBS Council
International Right of Way Association
American Society of Highway Engineers (ASHE)

Registrations

Professional Engineer, West Virginia, Virginia, Maryland, Arkansas, North Carolina, Ohio, and Kentucky

Previous Employment

2003 – 2005	Triad Engineering, Inc.
1995 – 2003	The Louis Berger Group, Inc.
1995	H.W. Lochner, Inc.
1988 – 1995	Whitman, Requardt and Associates
1987 – 1988	Draper Aden Associates
1985 – 1987	West Virginia Department of Highways

Summary of Professional Experience

Mr. Penn specializes in project management and administration in the areas of highways, land development, and utilities. Mr. Penn is also experienced in developing environmental impact statements and assessments in accordance with NEPA regulations.

Charles F. Straley, P.E., P.L.S.

Engineering Manager / Geotechnical & CMS Services Manager

Education

B.S. Civil Engineering 1986 University of Akron
M.S. Geotechnical Engineering 1988 University of Akron

Professional Affiliations

American Society of Civil Engineers
National Society of Professional Engineers
Society of American Military Engineers

Registrations

Professional Engineer, West Virginia, Ohio, Kentucky
Professional Licensed Surveyor, West Virginia

Certifications

Troxler Certified
40-hour Health and Safety Trained
8-hour Supervisor Health and Safety Trained

Previous Employment

1986-1987	University of Akron, Private consulting and testing
1982, 1984	R & W Contracting and Excavating, Inc. (summer)
1981-1982	West Virginia University Library

Summary of Professional Experience

Civil engineering with an emphasis in geotechnical engineering, including all aspects of subsurface exploration, laboratory testing, foundation and embankment design, slope stability, material and construction specifications, and construction monitoring.

Atlantic Engineering Services

EVAN A. ROWLES, P.E.
Senior Associate
Atlantic Engineering Services

Position: Senior Project Engineer

Education: Bachelor of Architectural Engineering
Pennsylvania State University, 1984

Experience:

Mr. Rowles has 23 years of experience with a wide variety of projects in the capacity of both Project Manager and Project Engineer. He has compiled a long list of successfully completed structures ranging from educational projects, hospitals, and corporate headquarter buildings to parking garages.

In addition to his work on new construction, Mr. Rowles' specialty is concrete rehabilitation and repair. Nearly half of his 160 plus repair and renovation projects have involved the rehabilitation and repair of concrete parking garages, apartment/condominium buildings and other concrete structures. His efforts with on-site structural evaluations, load surveys, condition surveys, building inspections, feasibility studies, and construction observation have contributed greatly to Mr. Rowles' expertise on existing structures. This experience has also resulted in Mr. Rowles' involvement with forensic investigations and the litigation of building deficiencies as an expert witness. Mr. Rowles was also the senior design engineer for the Allegheny County Jail Adaptive Reuse project to renovate the jail for use as the Allegheny County Family Court and Offices. His other work with renovations of historic structures includes the First United Methodist Church in Shadyside and the Smithfield United Church in Pittsburgh.

Professional Registrations: Licensed Professional Engineer in Pennsylvania, Maryland, Michigan, Ohio, Virginia and West Virginia. Mr. Rowles is NCEES certified.

Professional Memberships: American Concrete Institute
International Concrete Repair Institute
~Founding Member, Pittsburgh Chapter
~Past President, Pittsburgh Chapter
~Current Director, Pittsburgh Chapter

Professional Activities: Jefferson Community College, Steubenville, OH
~Engineering Technology Advisory Committee

Atlantic Engineering Services

JOHN M. SCHNEIDER, P.E.
Vice President
Atlantic Engineering Services of Pittsburgh

Position: Principal in Charge

Education: Bachelor of Architectural Engineering
Pennsylvania State University, 1983

Experience:

Mr. Schneider began consulting for architects on structures in 1983. He has served as project manager and project engineer for a wide variety of facility studies, new construction/renovation, building additions and historic preservation projects, both in the United States and overseas. Mr. Schneider's experience includes many projects for the federal government.

Mr. Schneider has acted as senior project engineer for historic preservation, renovation, and new construction projects. Recent projects directed by Mr. Schneider range in size from as small as $1 million to as large as $110 million. His recent work includes the design of facilities for the Carnegie Museum of Natural History as well as the Carnegie Museum of Art and the Carnegie Library, the Children's Museum of Pittsburgh, the Pittsburgh Regional History Museum and the Altoona Railroaders Memorial Museum. His duties include day-to-day project supervision, project scheduling for the entire organization, and coordination with other consultants.

Professional Registrations: Licensed Professional Engineer in Pennsylvania, District of Columbia, Maine, Massachusetts, Michigan, Minnesota, New York, Rhode Island, Ohio, Utah, Virginia, and West Virginia. Mr. Schneider is NCEES certified.

Professional Memberships: National Trust for Historical Preservation
Pittsburgh History & Landmarks Foundation

Professional Affiliations: Member of City of Pittsburgh, Board of Standards and Appeals
Member of City of Pittsburgh, Board of Code Review

Professional Seminars: Presenter for Engineering Society of Western Pennsylvania's November 19, 1998, seminar "Structural Aspects of the New $65 Million Alcoa World Headquarters Building on Pittsburgh's Waterfront."
Panelist/Speaker for "Working with Structural Steel in Schedule Driven Projects," March 30, 2000, sponsored by the American Institute of Steel Construction.

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Alan E. Traugott *LEED® Accredited Professional*

Since joining CJL Engineering in December 2003, Mr. Traugott has led the development of CJL's green engineering and commissioning practices. CJL has completed several LEED® projects and is actively engaged in over 20 current LEED® projects. Mr. Traugott served as Principal-in-Charge for a number of green projects, including the first LEED® volume-certified projects in the US (Gold, Silver, Certified) for over 100 PNC Bank branch locations, The Pittsburgh Project Guest House (Gold), and the Point Park University Dance Studio (LEED® Gold).

CJL is currently working on green projects including Phipps Conservatory Center for Sustainable Landscape, following the Living Building Challenge Net Zero guidelines, (beyond LEED® Platinum); BJC Healthcare Green Data Center in St. Louis; West Virginia State Capitol Building 3; Pittsburgh Zoo and Aquarium Water's Edge, Passavant Hospital, Pittsburgh Green Innovators, and 3 PNC Plaza mixed use projects.

Sustainable Design/"Green" Buildings/Energy Conservation

West Virginia Capitol Building #3, Charleston, WV (LEED® Silver)

West Virginia Univ. Oglebay Hall, Morgantown, WV (LEED® Silver)

PNC Bank, multiple branch locations, PA, OH, NJ, DC, DE, MD, KY, VA (LEED® Gold, Silver, Certified)

3 PNC Plaza LEED® Commissioning Services, Pittsburgh, PA

Reed Smith Headquarters, 3 PNC Plaza, Pittsburgh PA (LEED® Silver)

Phipps Botanical Conservatory, Center for Sustainable Landscape, Pittsburgh, PA (LEED® Platinum/Living Building Challenge)

Point Park University, Dance Complex and Central Plant, Pittsburgh, PA (LEED® Gold)

BJC Healthcare Progress West Data Center, Chesterfield, MO

Edinboro University Institute of Human Services and Civility, Edinboro, PA (LEED® Silver)

The Pittsburgh Project, Pittsburgh, PA (LEED® Gold)

Hearst Headquarters, New York, NY (LEED® Gold)

EPA Headquarters, Washington, DC

Battery Park City Authority, Residential Site 2A, 18b, NY, NY

New York Times Headquarters, New York, NY

Greening of the White House, Washington, DC

National Audubon Society Headquarters, New York, NY

Department of Defense Environmental Showcase at the Pentagon, Arlington, VA

Lamont Doherty Earth Observatory, Columbia University, Palisades, NY

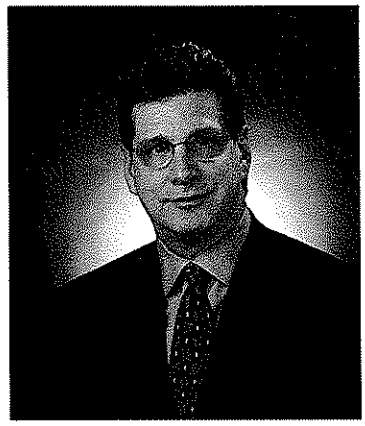
Lenfast Hall, Columbia University, New York, NY

North Shore/LIJ Hospital, Queens, NY

Logan Square Four Seasons Hotel, Philadelphia, PA

Biltmore Theatre, New York, NY

Whitehall Ferry Terminal, New York, NY



TITLE:

Managing Principal

SPECIALIZATION:

Project Management, "Green" Engineering, Energy Analysis, Computer-based Engineering Applications

EDUCATION:

B.A. Environmental Science, CUNY, Queens College
Indoor Air Quality Certification University of Virginia, Polytechnic Institute

MEMBERSHIPS/ACTIVITIES:

Founding Member and Director, US Green Building Council since 1993, Chairman, Chapters Committee 1998 – 2004, Sr Advisor Chapter Committee.

Board Member, Green Building Alliance, Pittsburgh, PA since 2004

Chair, R&D Committee, Green Building Alliance, Pittsburgh, PA

Board Member and Mentor, Architecture/Construction/Engineering (ACE) Mentor Program, NYC HS students since 1994, Pittsburgh Chapter startup committee, 2007

USGBC/ASHRAE National Liaison 2001 - 2006

Green Guidelines for Healthcare, Steering Committee

Penn State Indoor Environment Council, Steering Committee, Penn State University

Alan E. Traugott

Bronx Criminal Court Complex, New York, NY
National Wildlife Federation Headquarters, Vienna, VA
Sono Place, South Norwalk, CT
Princeton House, Princeton NJ
Natural Resources Defense Council, New York, NY
Con Edison's NY Apple Power Lighting/Daylighting Study
Prudential-at-Princeton Enerplex, Plainsboro, NJ
Codex Headquarters, Boston, MA
Chattanooga Administrative Building, Chattanooga, TN
US Embassy, Berlin, Germany

Professional Accomplishments:

Developed advanced building analysis capabilities including Computational Fluid Dynamics (CFD), energy simulations, load calculations, MEP and Lighting systems analysis and design, green engineering, and commissioning services for CJL and previously for a global engineering firm.

Mr. Traugott is currently a Board Member of the Green Building Alliance in Pittsburgh, and chairs the R&D Committee. He is overseeing the development of high performance building standardized metrics and data collection program (DASH) through a joint collaboration between ASHRAE and the Green Building Alliance.

Mr. Traugott is a founding member and Director on the Board of the US Green Building Council. He initiated chapter development in 1997, served as Chairman of the USGBC chapter committee for 6 years, and is now Past Chair and senior advisor of the Chapter Committee. He is currently serving on the Board Leadership Task Force. Mr. Traugott served as USGBC national Liaison to ASHRAE from 2001 to 2006, and currently sits on the steering committee for Green Guidelines for Healthcare (the precursor to LEED® for Healthcare).

Mr. Traugott assisted in developing:

- Hugh L. Carey/Battery Park City Authority Residential & Commercial, Environmental Building Guidelines.
- Advisor, USGBC's Leadership in Energy and Environmental Design (LEED®) green building rating system.
- Advisor, New York State Green Building Tax Credit Bill.
- Advisor and Industry Liaison for the NYC High Performance Building Design Guidelines.
- Advisor, DOE's Sustainable Building Technical Manual.

Mr. Traugott is a founding member of the ACE Mentor Program, which has mentored over 38,000 students across the US since 1991 to introduce high school students to Architecture, Construction, and Engineering. He helped to start and is currently a board member of the ACE Mentor Pittsburgh affiliate

Building Design & Construction Magazine, Editorial Board

Consulting Specifying Engineer, Editorial Board

Speaker, GreenSense Conference, Pittsburgh, PA Mar 2008

Speaker ASHRAE NYC, Apr 2007

Speaker, Engineering Sustainability, Pittsburgh, Apr 2007

Speaker AIA Ohio, Sep 2006

Speaker SMACNA Pittsburgh, Mar 2006

Speaker, Carnegie Mellon University, Pittsburgh, PA, Apr 2006, Mar 2008

Speaker, EMCOR Energy Technology Conference, New York, NY Apr 2006

Speaker, Engineering Green Buildings Webcast, HPAC Magazine, Nov 2005

Speaker Engineering Green Buildings Conference, Chicago Sep 2005

Speaker ASHRAE Penn State Univ. Student Chapter, Sep 2005

Moderator, Advisor Green Building Alliance *Building Solution Summit* May 2005

Speaker, BOMA Pittsburgh, Apr 2005
Speaker ASHRAE Pittsburgh, Jan 2005

Speaker Engineering Green Buildings, Cleveland June 2004

Moderator ASHRAE Green Building Conference, New York City, Mar 2004

Speaker AIA Ohio, Green Development, Jun 2004

Speaker AIA/ABC Pittsburgh, PA Mar 2004

Speaker GBA Green Development, Pittsburgh, PA May 2004

Speaker GreenBuild Expo, Pittsburgh, Nov 2003

Industry Liaison, Industry Peer Review Workshop Facilitator, 1999, 1998 NYC *High Performance Building Design Guidelines*, published June 1999.

Alan E. Traugott

Mr. Traugott was on the Feasibility Study team for the AIA's Greening of the White House and for the Department of Defense Environmental Showcase at the Pentagon.

Developed comprehensive computer based systems comparisons, energy optimization, utility costs, and life cycle cost analyses for the 8.5 million square foot World Financial Center, including special studies for the Central Plant, Chilled Water Thermal Storage, solar analysis of the Winter Garden, and Hudson River condenser water cooling analysis. .

Developed and implemented CADD-based MEP technical standards, master specifications, corporate communications standards, and project Quality Assurance procedures.

Technical editor, *Audubon House, A Sustainable Design Building,* John Wiley & Sons, 1993

Author "*The Role of the Engineer in Sustainable Design",* Lessons Learned at 4 Times Square, 1998

Author, *Green Building Design = High Performance Building Design* Consulting Specifying Engineer, 1999

Author, Energy Efficiency *in Lessons Learned High Performance Buildings,* May 2001

Author HPAC Magazine, May/July 2005

Technical Advisor, New York State Green Building Tax Credit Bill Initiative, Environmental Business Association, REBNY

Board Member and Mentor, Architecture/Construction/Engineering (ACE) Mentor Program, NYC HS students since 1991. Started ACE Pittsburgh chapter in 2007.

Member, Sustainable Development Council, Urban Land Institute

Speaker, Design Build Institute of America, Sep 2003
Speaker, Green Building Expo, Austin, Nov 2002

Speaker, Earthday NY, June 2002

AIA Committee on Architecture in Education, Nov 2001

Technical Advisor 1997,1996
NYC Guidelines for Energy Efficient and Environmentally Responsible Buildings

Speaker, *Engineer's Role in Sustainable Design*, Earth Day NY, April 1998

Speaker, *The "Green" Approach to Design*, AIA NYC, June 1998

Speaker, *The Engineer's Role in Sustainable Design*, EarthDay New York April 1998

Speaker, *Leadership in Energy and Environmental Design Building Rating System*, Urban Land Institute, Environmental Council, Nov 1997

Interplan Panel on "Green" Design for IAQ and Lighting, 1995 NYC

Co-Planner and Coordinator, 1994 US Green Building Council Annual Global Conference, Washington, DC

AIA Global Symposium on the Environment, New York City, 1994, presentation on Audubon House

Workshop coordinator, IDRC Environmental Workshops, 1993 - 1995

Technical advisor, EPA R&D Indoor Air Quality Symposium

Technical advisor and contributor, ASTM Green Building Practice, Environmental Sub-Committee E 50.06 1992

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Joseph R. Gaus, PE *LEED® Accredited Professional*

Mr. Gaus joined CJL Engineering in 2005 and has five years of experience in designing electrical and lighting systems for various types of facilities. Joe has experience in designing electrical and lighting systems for various types of facilities. He has knowledge of numerous power distribution systems. Joe has led equipment surveys for over 300,000 sf of laboratory space ranging from chemistry and biology to neuroscience and vivaria. He has completed fitout designs in projects of varying size and complexity. Joe coordinated project activities between the engineering and architectural disciplines as well as assisting in the coordination of projects with the appropriate utilities.

Representative Projects

The Western Pennsylvania Operating Engineer's Joint Apprenticeship and Training Program Facility, New Alexandria, PA (LEED®)

Weirton Medical Center 3rd Floor Endoscopy Suite, Weirton, WV

Roomful Express Warehouse Survey and Renovation, Pittsburgh, PA

4 Northshore Associates Office Renovations (Law Offices), Pittsburgh, PA

First National Bank of Seven Fields, Seven Fields, PA

US Investigative Services Pine Grove Square Expansion, Grove City, PA

PNC Branch Banks, Nationwide (LEED®)

Lebanon Valley College Neidig-Garber Science Building, Pittsburgh, PA

Grove City College Cafeteria Renovation, Grove City, PA

Pittsburgh City Schools Colfax Elementary School, Pittsburgh, PA

Point Park University Dance Studio Complex, Pittsburgh, PA (LEED® Gold)

Pennsylvania State University, Fayette Campus Multipurpose Building

University of Pittsburgh Clapp, Langley, Crawford Building, Pittsburgh, PA

Thomas Jefferson University Research Building, Philadelphia, PA

Rensselaer Polytechnic Institute Lab Building, Troy, NY

Cornell University Olin & Baker Partial Laboratory Renovations, Ithaca, NY

University of Texas Institute of Molecular Medicine, Houston, PA

UCLA Nanosystems Institute, Los Angeles, CA

Drexel University Edward Bossone Research Building, Philadelphia, PA

Frick Hospital, New Stanton, PA

The Pittsburgh Project New Residence Hall, Pittsburgh, PA (LEED® Gold)

Fort Totten East Condominiums, Washington, DC

MaCallen Buildings Condominium, Boston, MA

TITLE:
Power Designer

SPECIALIZATION:
Power Design

EDUCATION:
2002, Grove City College
Grove City, PA
BS in Electrical Engineering
4 year ABET accredited
Curriculum

SKM Powertools for Windows
Standard/Advanced Training
Courses

MEMBERSHIPS/ACTIVITIES:

2004, LEED® Accredited
Professional

2004, National Society of
Professional Engineers

2004, Pennsylvania Society of
Professional Engineers

REGISTERED PROFESSIONAL ENGINEER:

Pennsylvania
Iowa
Louisiana
Massachusetts
New Jersey
Ohio

Eric E. Groer, P.E., LEED® Accredited Professional

Eric E. Groer, P.E. is a Mechanical Engineer for CJL Engineering. He joined the firm in September 2003, and his areas of specialization include Energy Analysis Modeling, Building Systems Design, Hot and Chilled Water Systems Design, Air Systems Design, Geothermal Design, Radiant Flooring Design, and LEED Energy Modeling. Mr. Groer is a LEED® Accredited Professional, as designated by the US Green Building Council. Mr. Groer's duties involve Systems Design, Project Management, Surveying and Analyzing Existing Building Systems. He attends design and construction meetings, and implements Energy Efficient and Cost Effective construction strategies, and Building load analysis.

Representative Projects:

The Western Pennsylvania Operating Engineer's Joint Apprenticeship and Training Program Facility, New Alexandria, PA (LEED®)

West Virginia Univ. Oglebay Hall, Morgantown, WV(LEED® Silver)

West Virginia Capitol Building #3, Morgantown, WV (LEED® Silver)

St. Francis Elementary School, Morgantown, WV

VA University Drive, Pittsburgh, PA
East Wing Mechanical System Upgrade

Trumbull Memorial Hospital, Warren, OH
Chilled Water Extension

Norwin Middle School, North Huntingdon, PA

Northside Medical Center, (Forum Health), Youngstown, OH
Circulation Pavilion
West Addition

Pittsburgh Zoo and PPG Aquarium, Pittsburgh, PA (LEED® Silver)
Water's Edge (Polar Bear Exhibit)

University of Pittsburgh, Pittsburgh, PA
Darragh Street Housing

University of Pittsburgh at Johnstown, Johnstown, PA
Willow Hall Student Housing

Youngstown Air Reserve Station, Youngstown, OH
Housing Design LEED®

Steubenville Dialysis Clinic, Steubenville, OH

Sunnyview Nursing Home, Butler, PA

Capitol City Mall, Camp Hill, PA

TITLE:
Mechanical Engineer

SPECIALIZATION:
Mechanical Engineering

EDUCATION:

2003 in Mechanical Engineering Technology
University of Pittsburgh at Johnstown

REGISTERED PROFESSIONAL ENGINEER:

Pennsylvania

Dennis J. Kopko, CPD

Denny has expertise in all aspects of plumbing design for educational facilities, hospitals, manufacturing facilities and office buildings. Dennis also has considerable experience in computer systems and operations.

Representative Projects

The Western Pennsylvania Operating Engineer's Joint Apprenticeship and Training Program Facility, New Alexandria, PA (LEED®)

Met Theater, Morgantown, WV
Renovations to the Met Theater required Denny to provide plumbing and fire protection systems design.

FreeMarkets Building, Pittsburgh, PA
Denny provided plumbing and fire protection design for the Second Floor (DeVry University), the Thirty-seventh Floor (Wilshire Associates), and the Ninth, Tenth and Eleventh Floors (Aristech) renovations.

Benedum Center for the Performing Arts, Pittsburgh, PA
The complete renovation of the plumbing systems and a new fire protection system were designed by Denny for the conversion of the old Stanley Theater into the Benedum Center.

Byham Theater, Pittsburgh, PA
Denny provided the design for the plumbing and fire protection system renovations at the Byham Theater.

Brentwood Volunteer Fire Company Building, Brentwood, PA
The project consisted of constructing two separate structures, an office building and a truck building, for which Denny designed the plumbing and fire protection systems.

Carnegie Volunteer Fire and Rescue Bureau Building, Carnegie, PA
Denny designed the plumbing systems including domestic water, domestic water heating, gas piping, sanitary, vent and storm water.

Adams Township Municipal Building, Mars, PA
The municipal building is a new three-story structure with the third floor being built as a space for future expansion. The plumbing systems included domestic water, domestic water heating, sanitary, vent, gas piping and storm water.

Goddard State Park Toilet Facilities, Goddard, PA
The plumbing system design included a well pump, domestic water booster pump system with storage tanks and grinder pump system.

Mon Fayette Expressway Maintenance Building, Pennsylvania
The maintenance building was constructed as a part of the Mon Fayette Expressway project. The plumbing design for the building included domestic water, domestic water heating, sanitary, vent, gas piping and storm piping systems.

Mon-Fayette Transportation South Mainline Toll Plaza, Southwestern, PA
The plumbing designs included domestic water, domestic water heating, sanitary, vent and storm water piping systems.

TITLE:
Plumbing Designer

SPECIALIZATION:
Plumbing Design

EDUCATION:

1989 Dean Institute of Technology, Associates Degree

Certification in Plumbing Engineering

MEMBERSHIPS/ACTIVITIES:

American Society of Plumbing Engineers

National Fire Protection Association

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James M. Vizzini, P.E. LEED® Accredited Professional

James M. Vizzini is a Managing Partner of CJL Engineering, responsible for management decisions, current projects, architect and client relationships and new business development. He is *LEED®* Accredited by the U.S. Green Building Council.

As a Mechanical Engineer, Mr. Vizzini oversees the design of HVAC systems for various commercial and institutional projects, as well as various elementary and secondary schools, universities, health care facilities and commercial projects. These range from large equipment replacement such as boilers and air handling units, CFC upgrades and chiller replacements to entire HVAC systems design. He has also been the project engineer on various Department of General Services projects for the Commonwealth of PA. His noteworthy projects include:

West Virginia Univ. Oglebay Hall, Morgantown, WV (LEED® Silver)

West Virginia Capitol Building #3, Charleston, WV (LEED® Silver)

DiSepio Health & Wellness Center (LEED) St. Francis University, Loretto, PA

Water's Edge (LEED® Silver)Pittsburgh Zoo and PPG Aquarium, Pittsburgh, PA

Elephant & Giraffe House (LEED® Silver)Pittsburgh Zoo and PPG Aquarium, Pittsburgh, PA

Theatre Square Garage (O'Reilly Theatre and Katz Plaza Complex) Pittsburgh Cultural Trust, Pittsburgh, PA

Naval Air Station - Oceana, Child Development Center (LEED® Commissioning Services) Virginia Beach, VA

PNC Branch Banks (100 new LEED® branch bank facilities) Locations in Pennsylvania, New Jersey and Ohio.

Biotech Research Facility, University of Pittsburgh, Pittsburgh, PA

Johnstown High School, Johnstown, PA

Frank. J. Pasquerilla Conference Center and Intermodal Transportation Center, Johnstown, PA

Chevron Science Center- Renovation, University of Pittsburgh, Pittsburgh, PA

Westinghouse Building-Chilled Water Plant, Pittsburgh, PA

Community College of Allegheny County, Pittsburgh, PA

Plum Primate Research Facility, University of Pittsburgh, Pittsburgh, PA

Huntingdon State Correctional Institution, Huntingdon, PA

Franklin Science Center - Renovation, Shippensburg University, Shippensburg, PA

Upper Campus-Chilled Water Plant, University of Pittsburgh, Pittsburgh, PA

TITLE:

Managing Partner
CJL Engineering - Johnstown

SPECIALIZATION:

Mechanical Engineering

Master Planning

District Cooling Plants

EDUCATION:

B.S. / 1987 / Mechanical Engineering Technology
University of Pittsburgh at Johnstown

REGISTERED PROFESSIONAL ENGINEER:

Pennsylvania
West Virginia
District of Columbia
Maryland
New Jersey
Virginia
North Carolina
Delaware
Massachusetts

MEMBERSHIPS/ACTIVITIES:

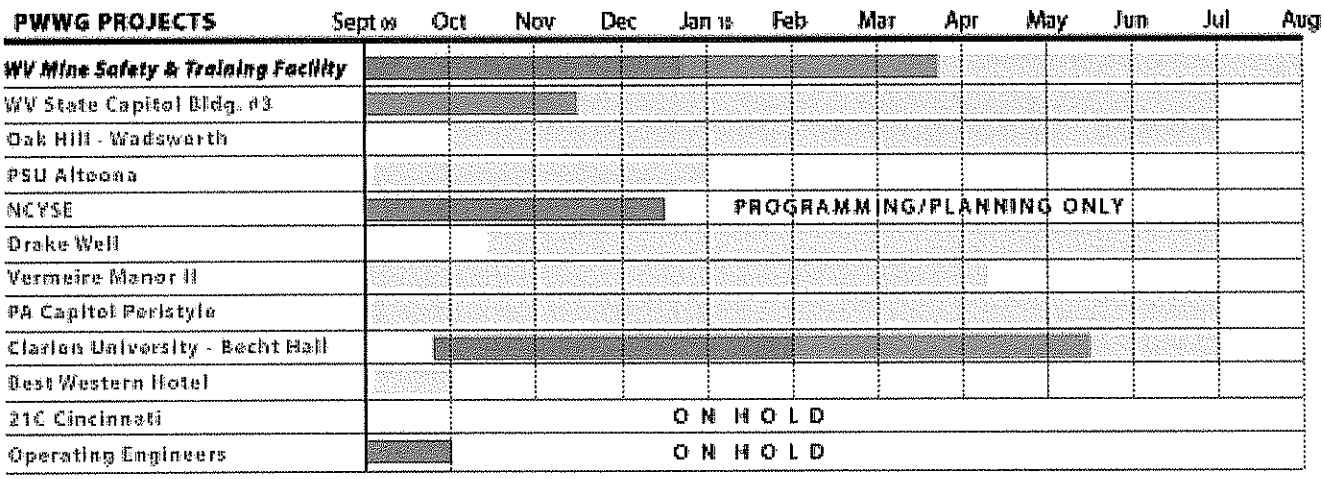
American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE)

Pennsylvania Society of Professional Engineers (PSPE)

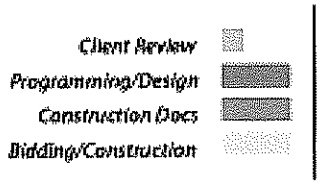
National Society of Professional Engineers (NSPE)

U.S. Green Building Council (USGBC)

Schedule of Major Current & Projected Work



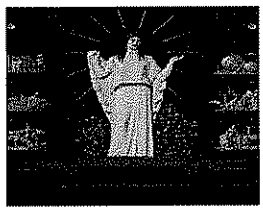
This table illustrates the current workload by project phase.
It demonstrates there are ample resources available for your project.



West Virginia State Capitol Building #3

Charleston, West Virginia **Perfido Weiskopf Wagstaff + Goettel** MEP Subconsultant **CJL**

Size 165,000 S.F.
Construction Cost $24,000,000 **Firm's Responsibility** Programming Architectural Design Contract Documents Construction Administration **Completion Date** Projected, 2010 **Owner** Mr. David Oliverio Department of General Services, State of West Virginia 1900 Kanawha Blvd.,East Building 1, Room MB-60 Charleston, WV 25305 (304) 558-2317



The State Capitol Campus in Charleston West Virginia consists of seven buildings including the main Capitol Building and Rotunda. The second most prominent building, Building #3, was built in 1950 and designed by the successor firm of the main building, Cass Gilbert Jr. It was intended for the sole use of the Department of Motor Vehicles and was the singular facility for this department, drawing people from across the state. The first floor was designed to handled the large influx of people. Just off its marble clad, main lobby is an equally grand, large bank-like space with a counter and "teller" windows to serve the people.

Over the years several other departments have been located in the 8 story building and all original systems have been used beyond expected life and capacity.

The design challenge is to renovate the building so that it can be an office building for the 21st century. This requires extensive demolition on all levels. The building will be taken back to its structural shell and core, while maintaining and restoring the historically important features and spaces. The exterior of the building will also receive extensive restoration. The functional core of the building will be reconfigured to provide new amenities to the building occupants. New utilities including data and telecommunications will be installed.

The planning concept for floors 2 through 8 will provide maximum open office spaces that permit maximum flexibility for the varied departmental needs. Systems furniture will be used to create the varied working group relationships required.

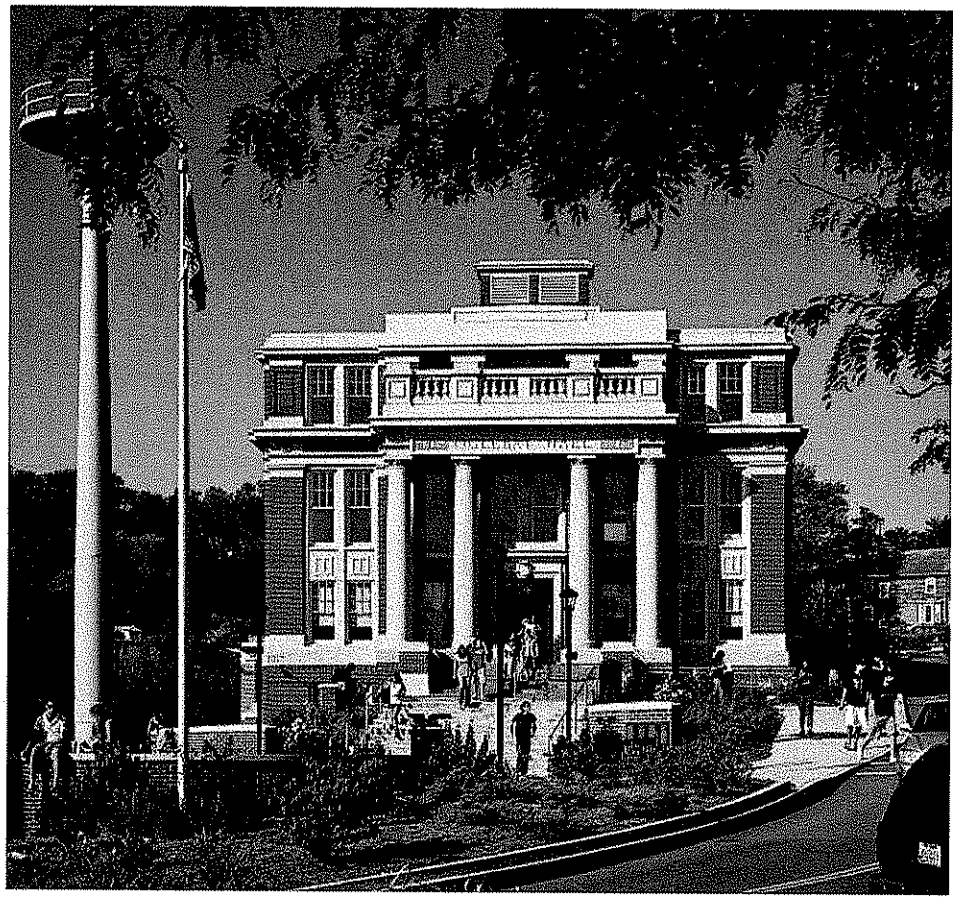
The first floor will house a conference center for the variety of users needing this kind of space in the state capital. A variety of meeting rooms and work spaces will service those who work on the State Capitol Campus as well as those who visit for a single day or extended stay. Individuals will be able to spend time in separate work carrels or small meeting rooms to conduct business while in Charleston. Large meetings, receptions or exhibits will be accommodated as well, including food service.

The building will be LEED certified.

Oglebay Hall Renovation and Addition at West Virginia University

Morgantown, West Virginia **Perfido Weiskopf Wagstaff + Goettel**

Size 55,000 sf Renovation with 20,000 sf Addition
Construction Cost $17,000,000
Firm's Responsibility Programming Architectural Design Contract Documents Contract Administration
Completion Date Projected 2007
Client Contact David Freese, Construction Manager, Planning Design and Construction, Physical Plant, West Virginia University
Owner West Virginia University

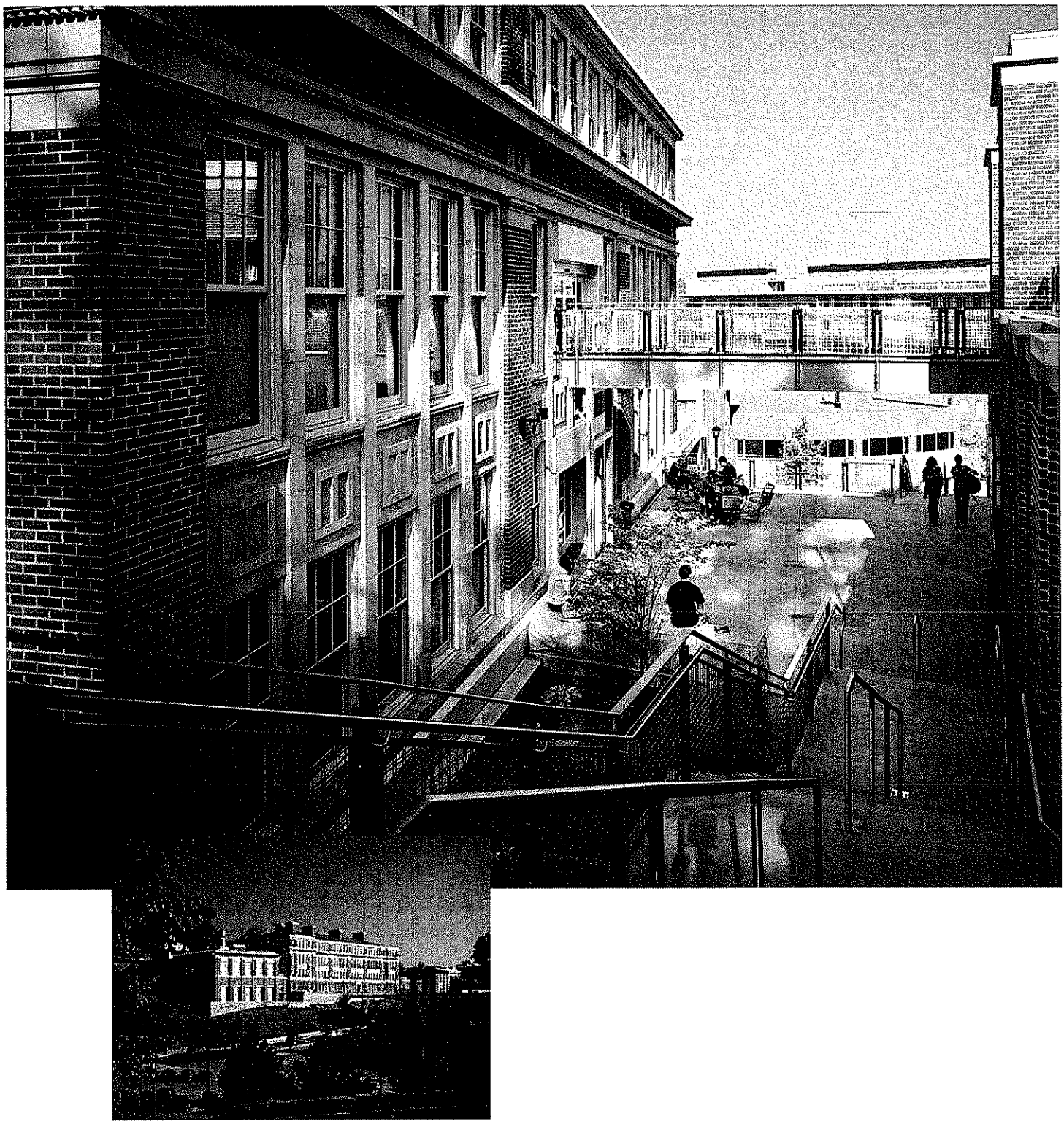


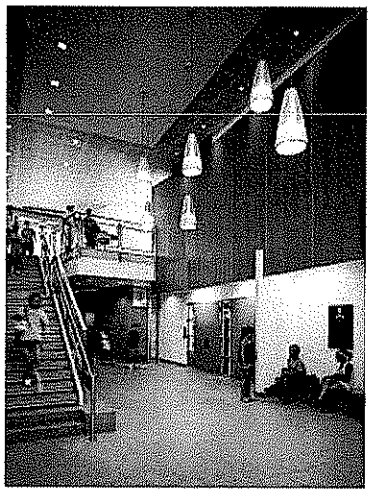
Existing Front Elevation

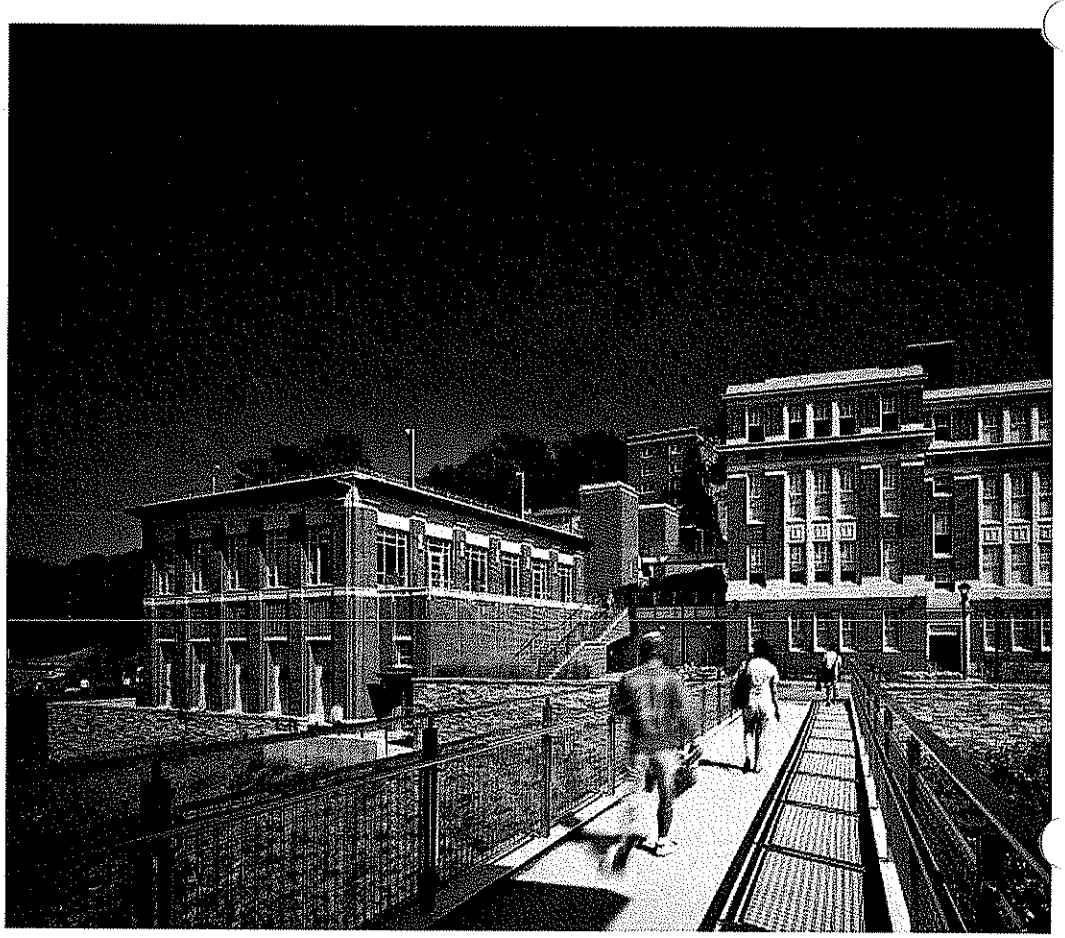
Oglebay Hall is a National Register Beaux Arts classroom building, built in 1917 and designed by architect Paul Davis. The project's aim is to restore the historic fabric of the building while completely updating its systems and interiors. The top two floors of Oglebay Hall will house the forensic science program, with general purpose classrooms, labs, and support spaces on the lower two levels. A two-story addition will provide two large lecture halls and additional classrooms.

Campus Integration

Oglebay Hall occupies a prominent place at the center of WVU campus, but its existing surroundings are compromised by disruptive vehicular access routes, fragmented pedestrian paths, and accessibility problems. New site work will enhance the visual and pedestrian connections to Woodburn Circle - the historic heart of the campus. A new monumental stair provides a sympathetic entrance to the main level, while accommodating an accessible entrance at the ground level.







Historic Restoration

The primary focus of the historic restoration of Oglebay Hall is on the exterior shell of the building. While the original fabric is largely intact, deterioration is a factor. The terra cotta cornices, limestone sills, slate roofing, integral gutters, and wood windows all required restoration. The wood windows presented a particularly interesting challenge. They were a dominant contributing characteristic of the building, but were inadequate to the demands of sensitive laboratory functions, and LEEDTM certification. The windows were replaced with high-performance aluminum-clad wood, tailored to the character of the original.

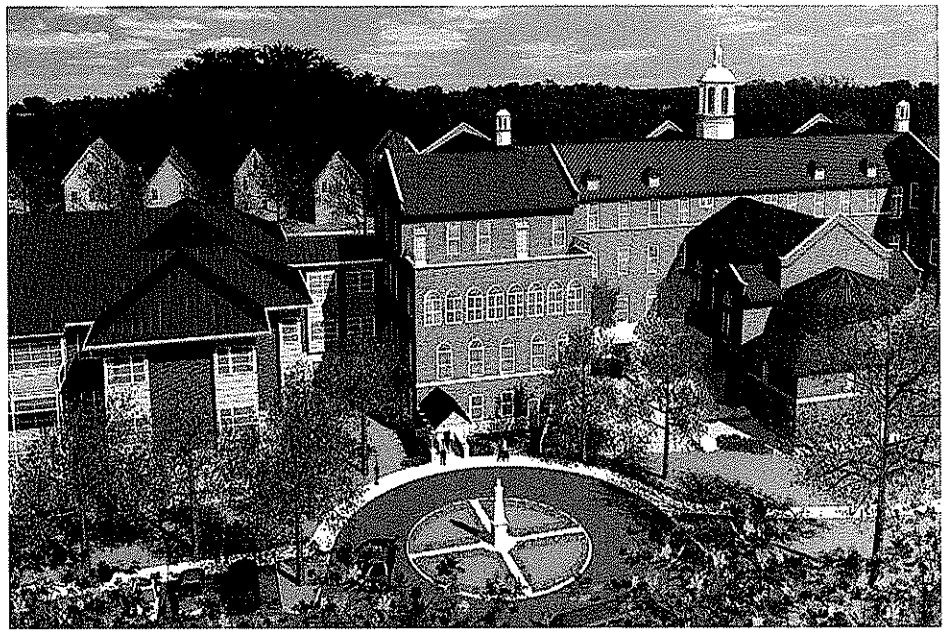
Integrated Design

WVU has established a goal of obtaining a LEEDTM Silver rating for this project. The design team is utilizing an integrated design approach, wherein engineering systems are not retrofitted into architectural designs, but conceived and developed with them, in sync. This is the best design approach for a project like Oglebay Hall, which requires the sensitive integration of technologically state-of-the-art classrooms – and laboratories with complex modern mechanical and electrical systems – into a historic structure.

Little Sisters of the Poor

Pittsburgh, Pennsylvania **Perfido Weiskopf Wagstaff + Goettel**

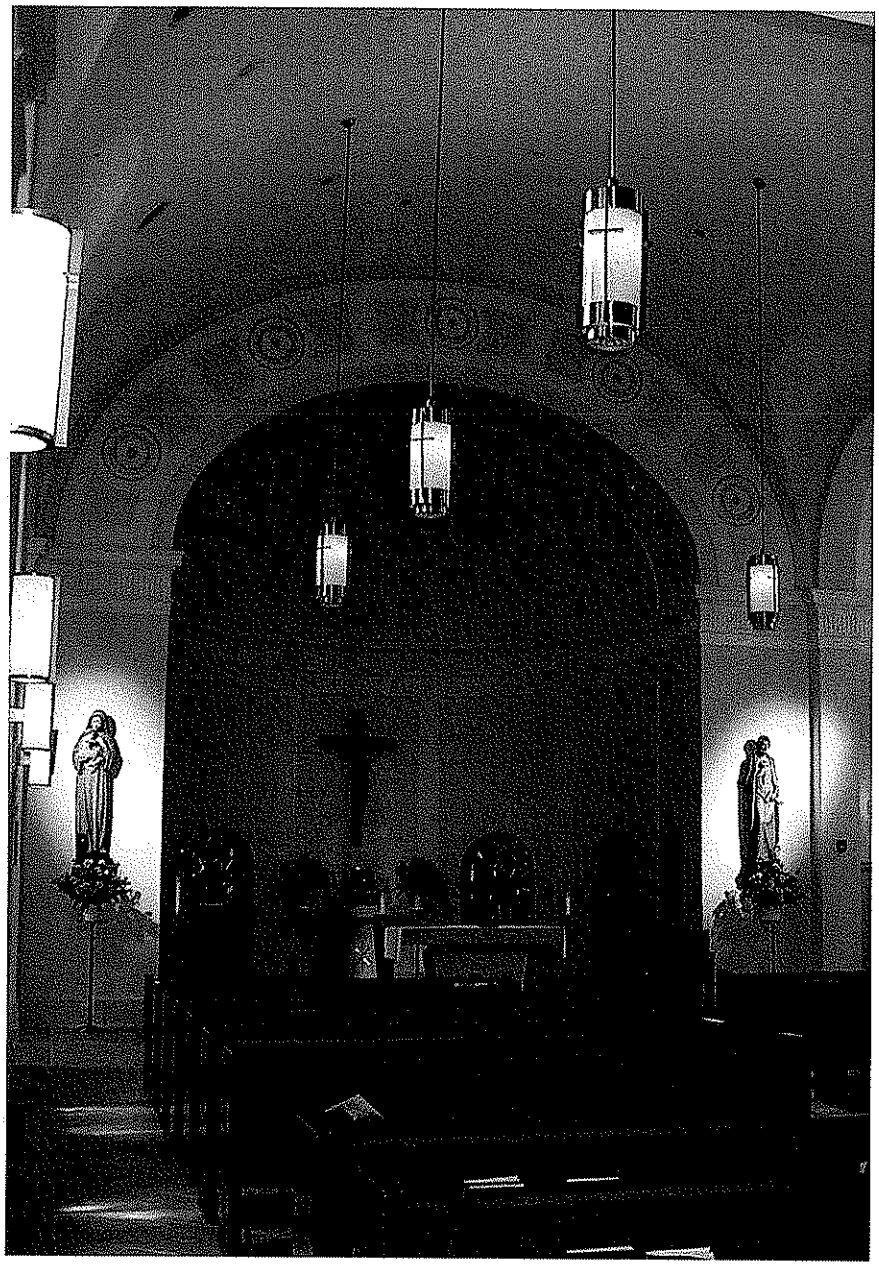
Size 131,000 sf
Construction Cost $16,600,000
Firm's Responsibility
Programming
Architectural Design
Fixtures, Furnishings, Equipment
Contract Documents
Contract Administration
Completion Date 2003
Client Contact
Sr. Elizabeth Judith Garrett
(412) 761-5373
Owner Little Sisters of the Poor 1028 Benton Avenue Pittsburgh, PA 15212

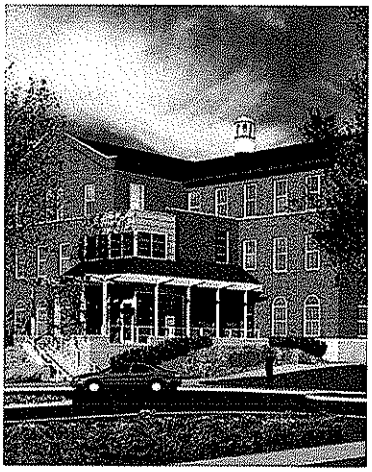


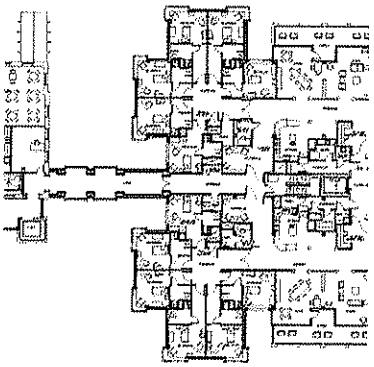
The Little Sisters of the Poor came to PWWG with a unique challenge: they wanted to upgrade two buildings (one built in 1923 and the other in 1972) and add a major addition, the intention being to create a home where elderly people could reside and remain through all levels of care. Their program includes Independent Living apartments, Personal and Intermediate Care (in a residential environment rather than a medical one), a senior community center, a wellness center with physical therapy services, a chapel, a convent, and administrative and support services.

New delivery systems had been established for linen, food, and medicine, so a new arrangement was required for these support services. This innovative design eliminates the old institutional medical model and creates an atmosphere like home, but with rooms designed to allow for a continuum of care. A senior center day program will offer nutrition, companionship, and social interaction to poor elderly people who have, until now, lived in isolation. Residential areas are fully accessible, with new floor finishes and easy outdoor access. Pathways, terraces, and secured porches encourage mobility, allowing even individuals with severe memory problems to enjoy the outdoors safely, and a secured private entrance creates a greater sense of self-reliance and privacy for Independent Living residents.

There is a spectacular renovated chapel. The new main kitchen is closer to the dining rooms, and utilizes more modern food-preparation equipment. Small kitchenettes throughout the facility allow for flexible food choices, and bring the sights and smells of home to residents.





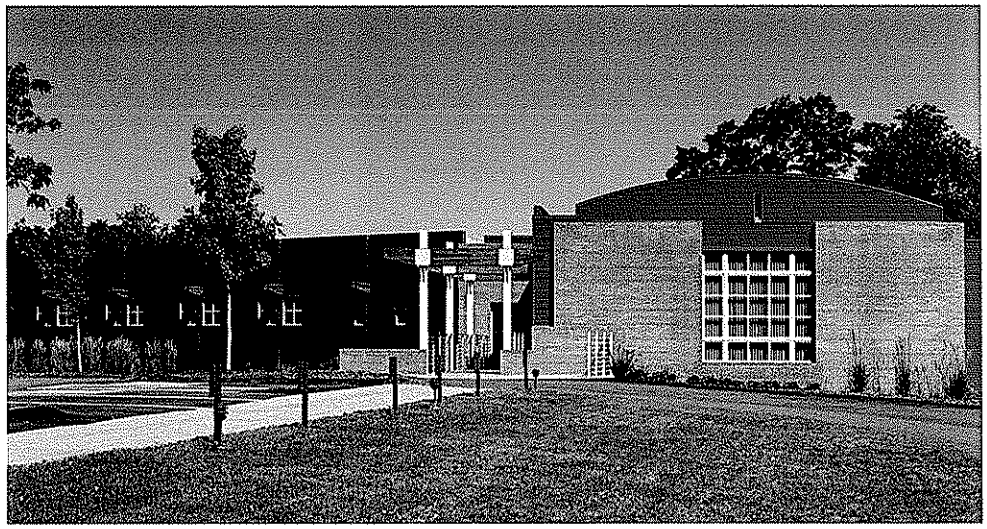


Typical Floor Plan

Tenser Phipps & Leeper

Pittsburgh, Pennsylvania **Perfido Weiskopf Wagstaff + Goettel**

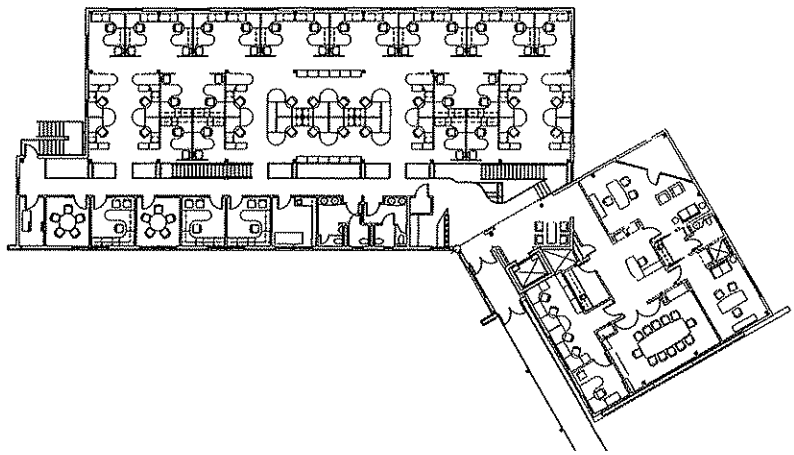
Size 17,000 s.f.
Construction Cost
$ 1,500,000
Firm Responsibility
Programming
Architectural Design
Contract Documents
Contract Administration
Completion Date 1994
Client
Tenser Phipps & Leeper
Award
AIA Pittsburgh Chapter
Silver Medal, 1994



Tenser, Phipps & Leeper is a new single purpose office building located on a suburban site in a predominantly residential section of Shaler Township. The site is across the street from the company's existing building which they have outgrown, but will be retained to house other functions of the company and small related businesses.

One of the primary challenges of this project was successfully planning the 2-1/2 acre site to accommodate a building of 17,000 square feet and 70 parking spaces, while not overpowering the adjacent residential buildings. There are several components to the solution. The building, which is two stories, has been set 250' back from the main road near the edge of a steep slope that drops off toward the back of the site. The building site was lowered, and the structure is partially set into the grade so that it has the appearance of a one story building when viewed from a distance. The parking area contains regularly spaced rows of trees to give the appearance of a "parking grove" and is separated from the access drive so that you can drive to a drop-off point without driving through the parking lot. Between the access drive and the parking lot, a pedestrian walkway connects the existing building to the new building.

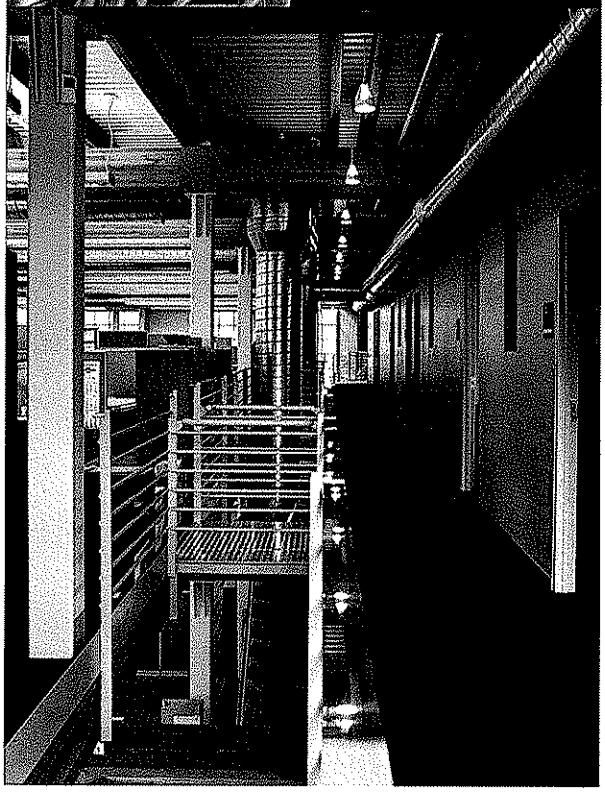
PWWG was responsible for fully programming the space requirements for the project, which was developed through a series of meetings with a working committee. Based upon that program, the design concept for the building was established consisting of open office work stations located in large "loft-like" spaces that utilize wood beams and joists that are exposed to view. A major circulation spine runs along one side of that space on both floors, and it contains floor openings on the upper level with intercommunicating stairs. On the other side of the spine are located a series of spaces requiring acoustical privacy such as conference rooms and private offices.

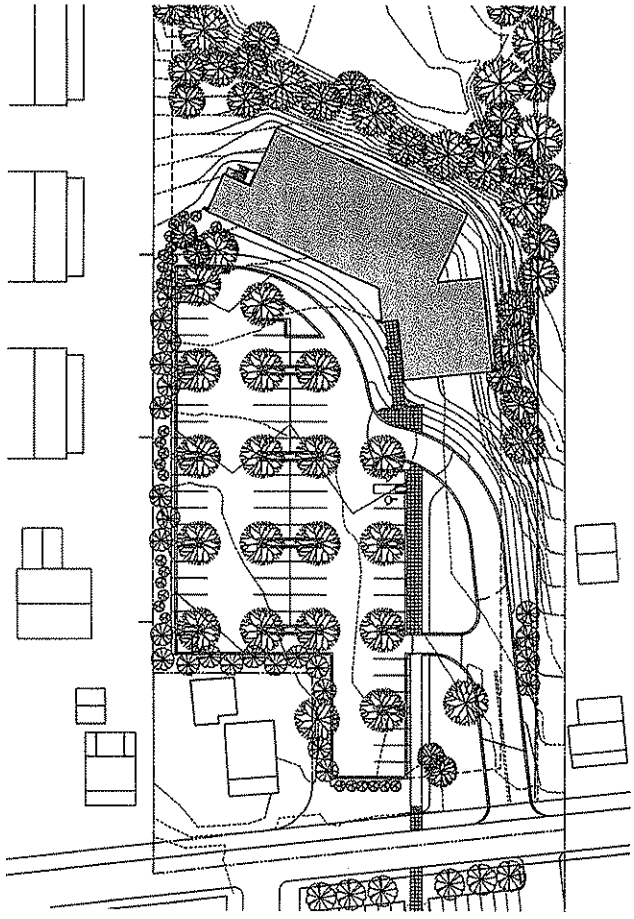


"This building did not disappoint me. The detailing of the structural steel was good and consistent throughout. The duct work was very clean, installed in a workmanlike manner, 'plum level.' The design shows an imaginative use of very simple materials from which the best decorative affect is drawn. There was a careful integration of the mechanical systems with a dominant structure and nice layering. ...The architect created what the client was looking for – a high quality working environment. Site location is highly successful in not having the building impose itself on the surrounding residential neighborhood. The building is a good neighbor"

AIA Pittsburgh Jury

PERFIDO WEISKOPF WAGSTAFF + GOETTEL





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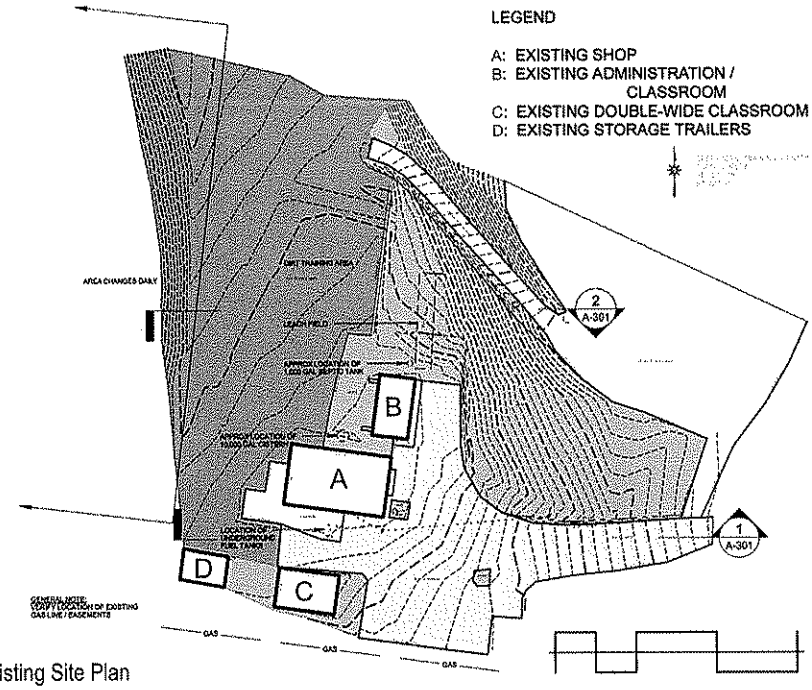
GOETTEL

SECTION 3
CONSTRUCTION ADMINISTRATION

Operating Engineers Training Facility

New Alexandria, Pennsylvania **Perfido Weiskopf Wagstaff + Goettel / Mascaro Construction**

Size 28,000 s.f.
Construction Cost
$ 3.5 Million
Firm Responsibility
Facilities Planning
Completion Date
April 2009
Client
Western Pennsylvania
Operating Engineers

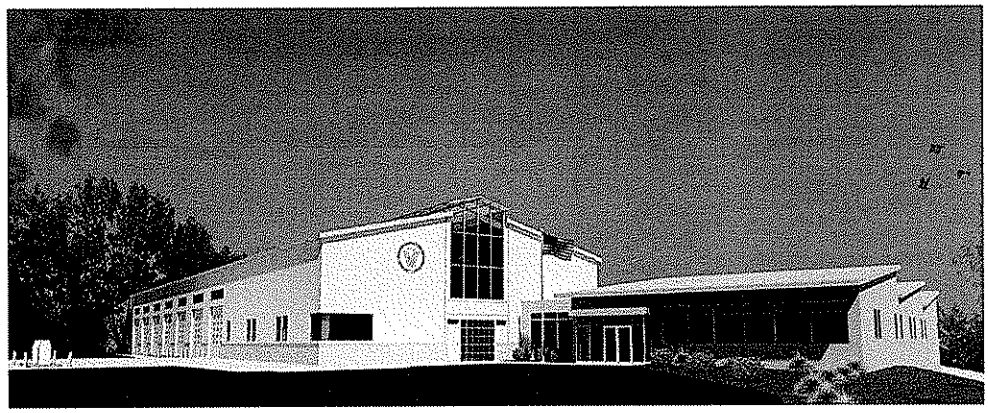


Existing Site Plan

The Operating Engineers Training Facility (OETF) is a multi-use facility located in New Alexandria, Pennsylvania. This 28,000 sf sustainable facility will use "green technologies" to provide a 16,000 sf high bay shop building and a 12,600 sf building for administration and classrooms. PWWG, in partnership with Mascaro Construction, CJL Engineering, Center for Building Performance & Diagnostics, and Strategic Development Solutions, LLC, is developing a conceptual planning study that considers building footprints, orientation, circulation, access, building/land relationships, advanced systems integration, materials, the reuse of existing assets, and the relation to all of these to the needs of the Operating Engineers (OE).

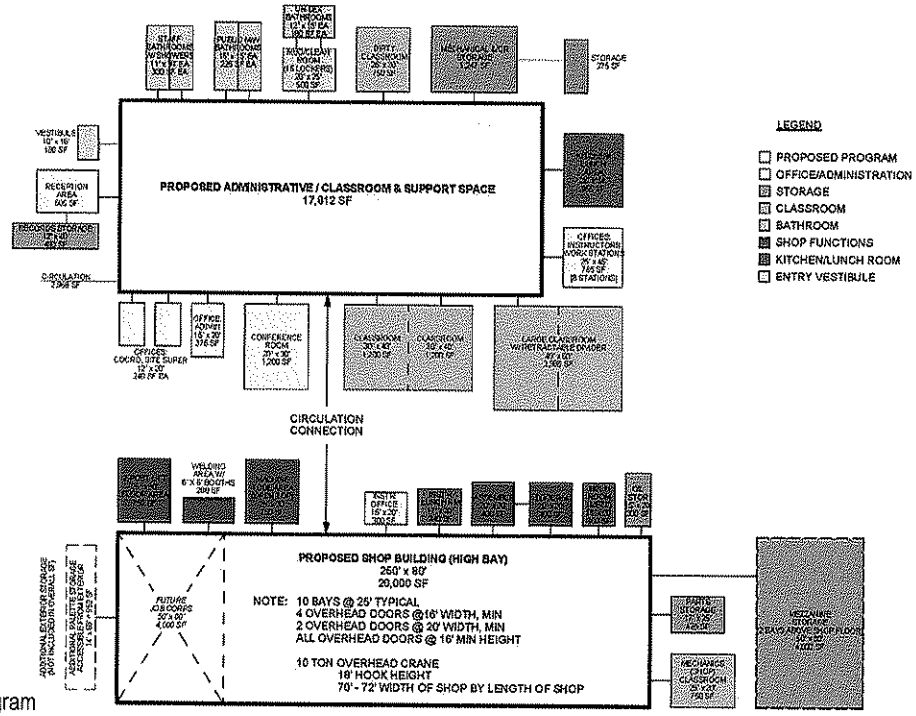
The facility will allow employees and students to work in better proximity to their training field, shop and classrooms. Design strategies include: natural ventilation, daylighting, earth tubes and a grey water system for storm water run-off. Other systems considered are: geo-thermal, solar collectors, wind turbines, earth mounds, radiant heat slab and a waste oil reuse system. The goal is to provide an innovative 'green' model for similar facilities.

3D View

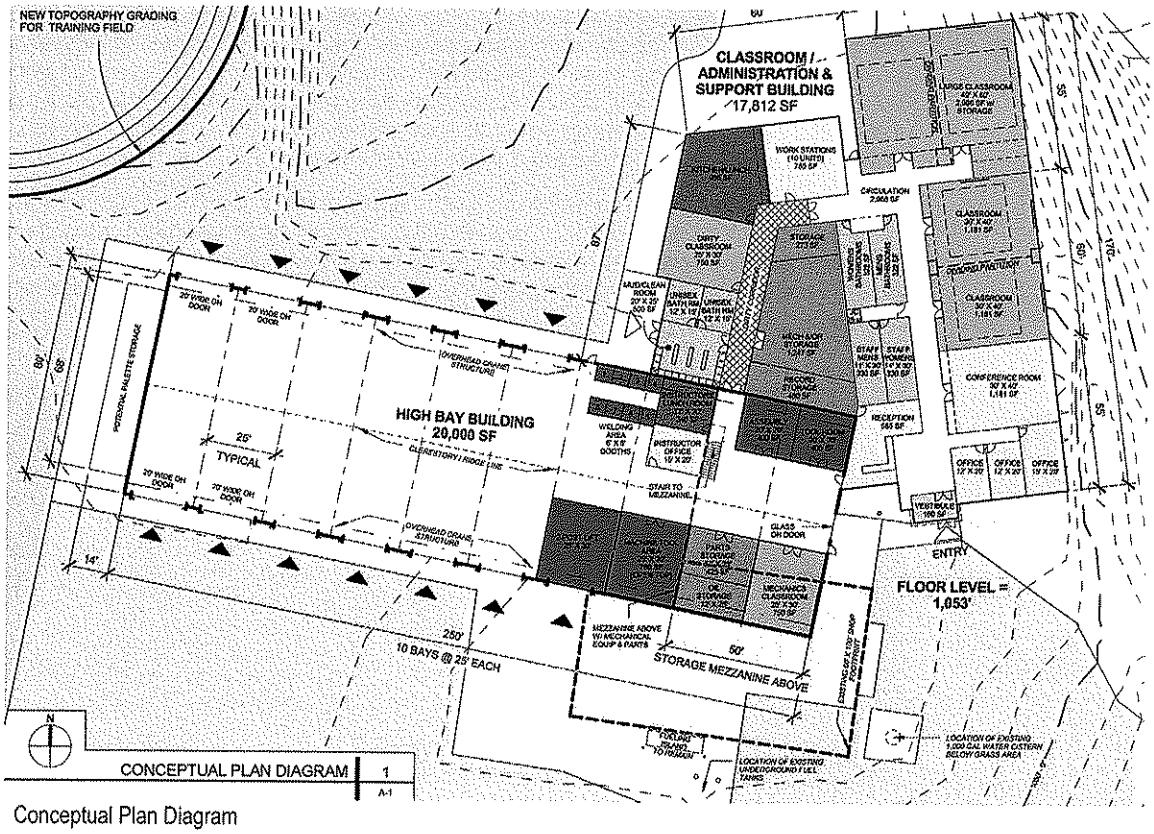


Rendered Perspective

PERFIDO WEISKOPF WAGSTAFF + GOETTEL



Program Diagram

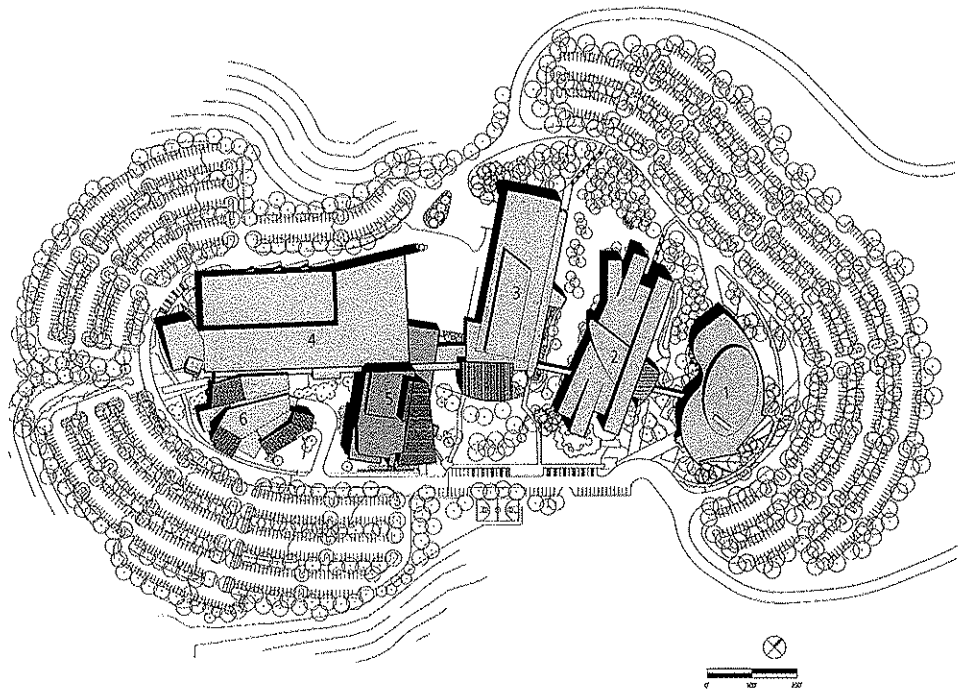


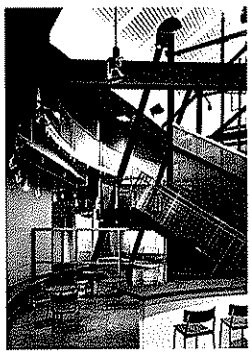
Conceptual Plan Diagram

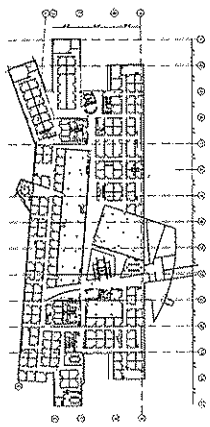
FORE Systems

Warrendale, Pennsylvania **Perfido Weiskopf Wagstaff + Goettel / STUDIOS Architecture**

Size 574,000 s.f.
Construction Cost
$ 60,000,000
Firm Responsibility
Programming
Architectural Design
Contract Documents
Contract Administration
Completion Date
Buildings 1-3, 1997
Building 4, 1999
Building 5, 2001
Building 6, unbuilt
Client
FORE Systems
Award
Master Builder's Association, Building Excellence Award, 1997

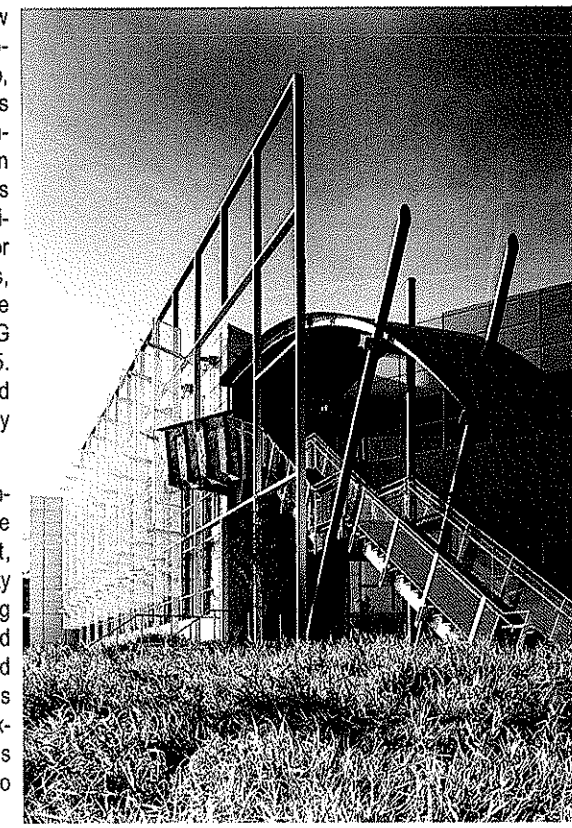




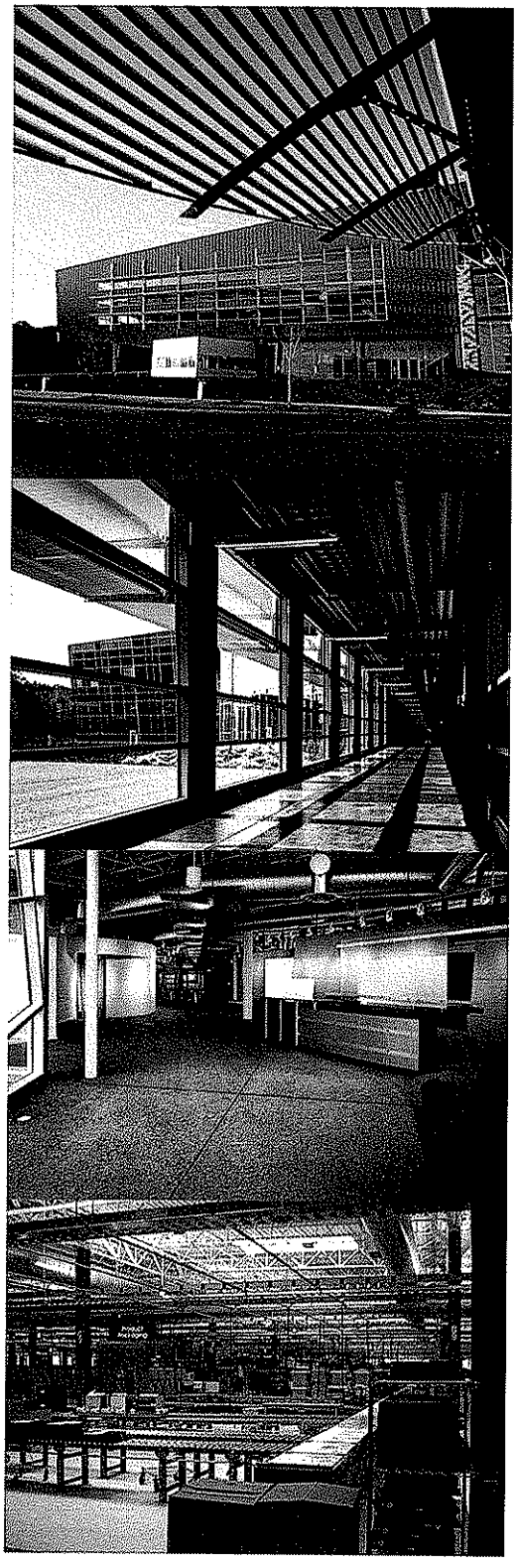


The headquarters of FORE Systems (now Ericsson) is a dramatic campus-style development located on 95 acres in Marshall Township, Warrendale, Pennsylvania. The design reflects the image of a fast-growing, high-tech company. STUDIOS Architecture was the design architect and architect-of-record for Buildings 1, 2, and 3. PWWG was the associate architect on the project, and was responsible for local liaison throughout the design phases, many of the construction documents, and the administration of construction work. PWWG was architect-of-record for Buildings 4 and 5. The buildings are linked by a fully-enclosed walkway, and there is parking for approximately 2,000 vehicles.

The five completed buildings house administrative functions, hardware and software engineering, training, customer support, manufacturing and testing, and a dining facility that serves the entire complex. Each building in the complex has a different exterior skin and a different footprint. Though they are designed for office-building occupancy, the buildings maximize floor-to-floor heights and have exposed systems. This creates a flexibility that is an advantage for FORE Systems, but will also prove accommodating for any future tenant.



PERFIDO WEISKOPF WAGSTAFF + GOETTEL



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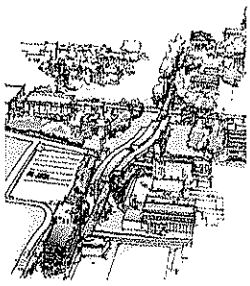
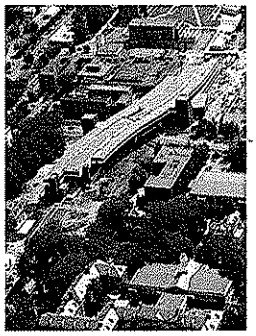
GOETTEL

Information Sciences and Technology Building, Penn State University

State College, Pennsylvania **Rafael Viñoly Architects / Perfido Weiskopf Wagstaff + Goettel J.V.**

Size 205,000 s.f.
Construction Cost
$ 44,500,000
Firm Responsibility
Programming
Architectural Design
Contract Documents
Contract Administration
Completion Date 2004
Client
Penn State University

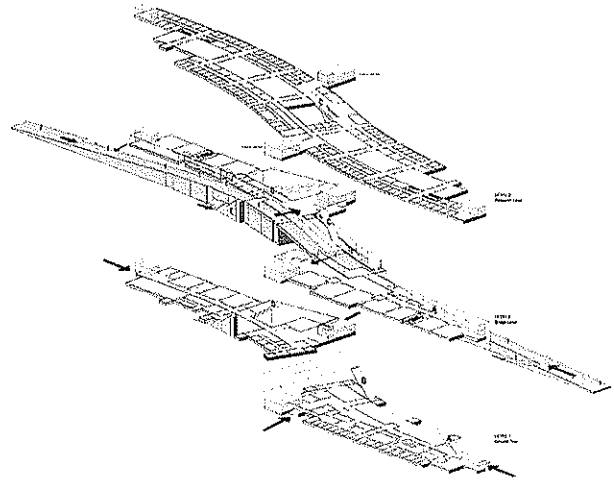




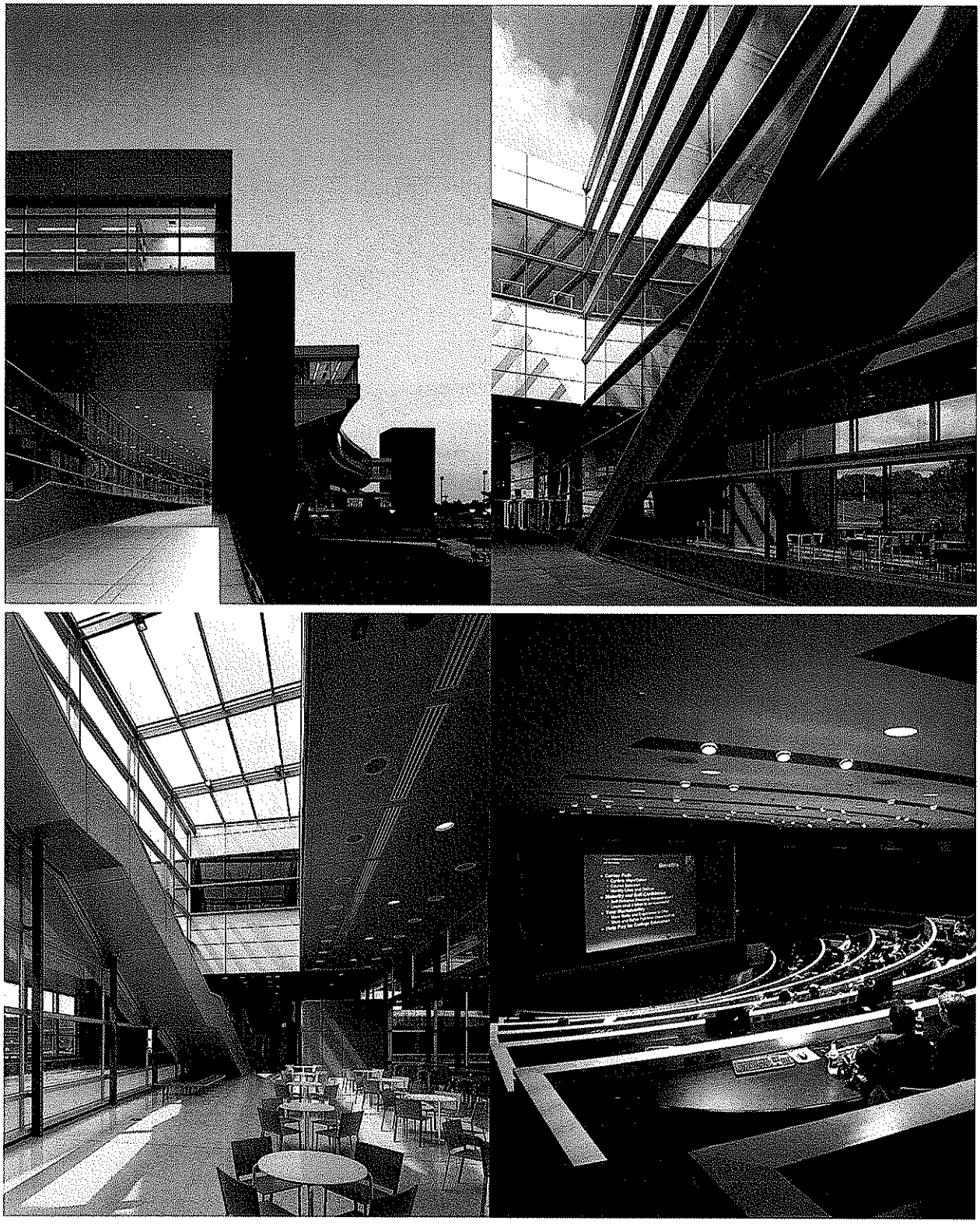
The IST Building on Penn State's main campus is a signature building for the fast-growing School of Information Sciences and Technology. Its design required a unique planning solution to satisfy the complex needs of an expanding university. Straddling a road that separates Penn State's original campus from its new West Campus, the IST building literally bridges the divide with a raised pedestrian crossing.

This crossing is an integral part of the building. In conjunction with the building's interior transparency, it allows student and public interaction with the academic and technological elements of the school. Encouraging human interaction was an important consideration for the client in the design of such a computer-intensive building. A two-story atrium with a cafe and small retail space is intended to bring people together over the course of the day.

The IST program required spaces for administrative and instructional use, as well as 20,000 square feet dedicated to flexible computer research labs under intensive mechanical and electrical demands. Formally, the building represents the different elements of the school. Administrative spaces occupy the building's base, while instructional spaces are on the bridge level. These lower portions of the building are rendered in masonry, with glazed curtain wall that reveals interior views of the school. On the third level, the laboratories occupy a raised, glass-and-metal-panel "hull" which curves over the pedestrian crossing in a gesture that reconciles the main axes of the two campuses.



PERFIDO WEISKOPF WAGSTAFF + GOETTEL



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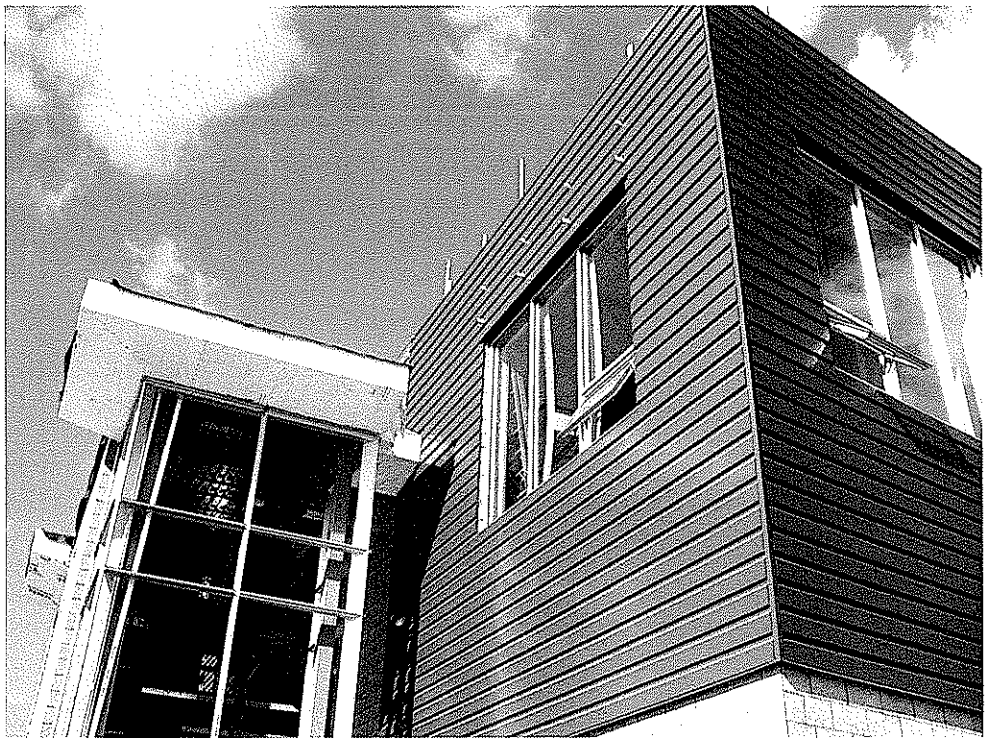
Pittsburgh Plumbers Local #27 - Headquarters and Training Center

Pittsburgh, Pennsylvania **Perfido Weiskopf Wagstaff + Goettel / Mascaro Construction**

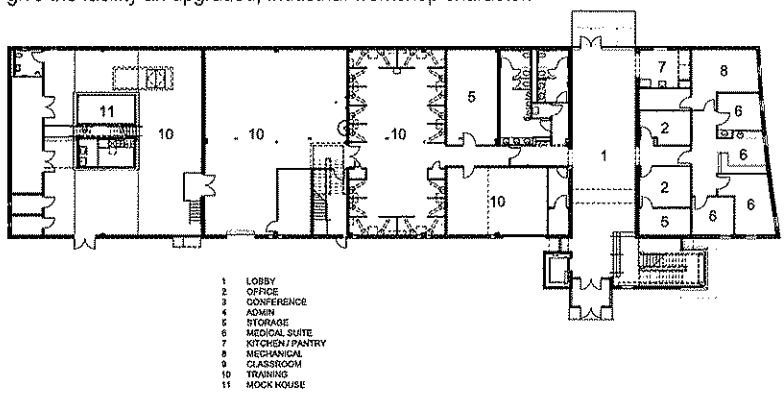
Size 25,000 s.f.
Construction Cost
$ 4,200,000
Firm Responsibility
Programming
Architectural Design
Contract Documents
Completion Date 2007
Client
Mascaro Construction, LP
(Delivered via a Design-Build agreement with Mascaro)
Award
Master Builders Assoc. Design-Build Award 2007



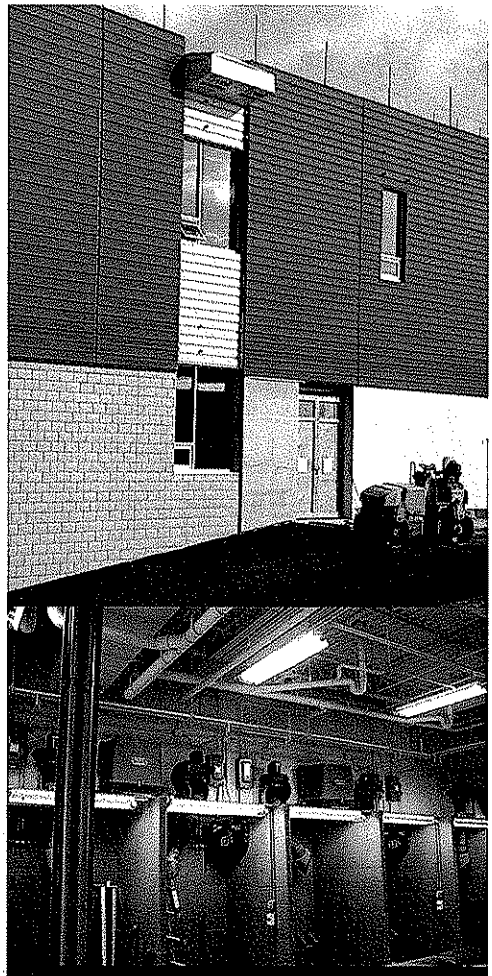
PWWG was faced with a severe space shortage at the existing Pittsburgh Plumbers Local #27 training facility. The existing structure (built in about 1970) was a print shop. The union had adapted it for training non-master, journeymen, and apprentice plumbers.

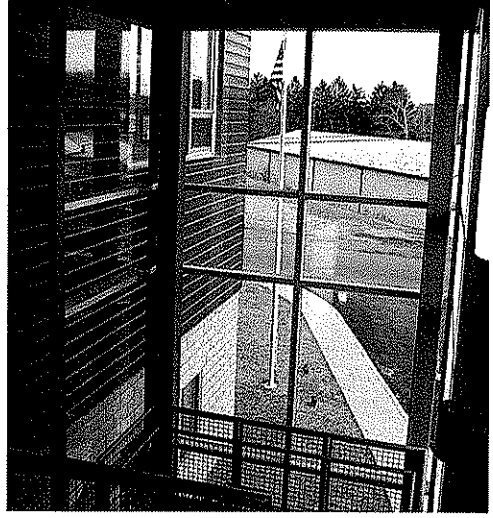
To meet the growing needs of the union, two wings were added - one to the front and one to the rear of the building - and a second floor was added to the new, combined length. In total, 18,255 square feet were added to the original building, bringin it to 25, 070 square feet. Because the original roof was a light frame construction, it was decided to construct the second floor independently. Columns were added to the existing building to accommodate the new space.

The long, narrow site was configured for 70 parking spaces. This was an increase of 25. It accommodates the long, narrow 60-foot-wide building, plus loading areas and a small patio. The headquarters contains training facilities, classrooms, and shops. There is also a column-free, multi-purpose room, and an area with full-scale mock-ups of certain kinds of plumbing construction. Daylight is brought to the building through windows, but also via a large skylight with a cutout down to the first floor. The metal panel skin of the new second floor was meant to give the facility an upgraded, industrial workshop character.



PERFIDO WEISKOPF WAGSTAFF + GOETTEL

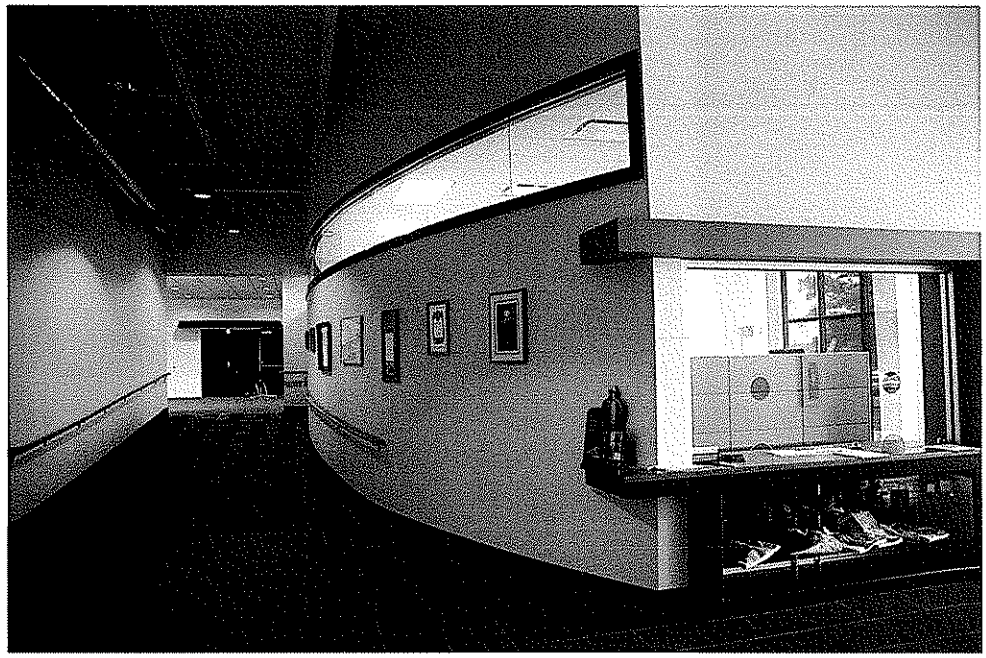


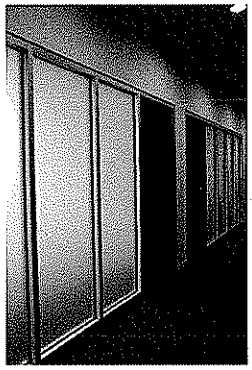


International Union of Operating Engineers LU Local #66

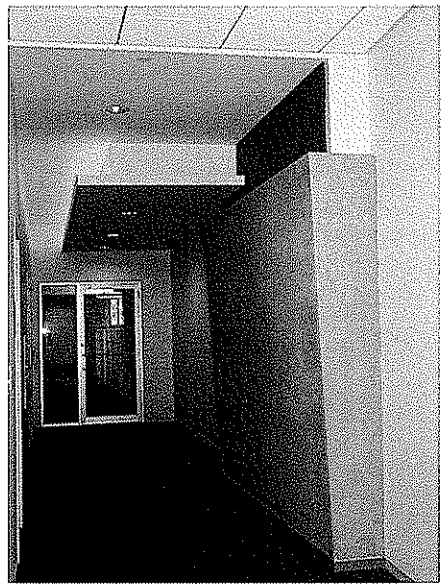
O'Hara Township, Pennsylvania **Perfido Weiskopf Wagstaff + Goettel / Mascaro Construction**

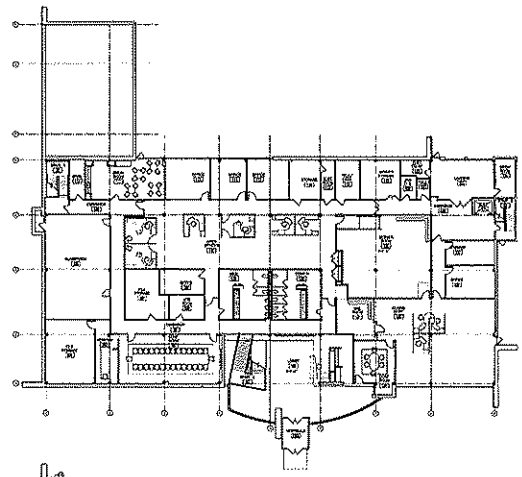
Size 35,000 s.f.
Construction Cost
$ 1,000,000
Firm Responsibility
Programming
Architectural Design
Contract Documents
Completion Date 2006
Client
Mascaro Construction, LP
(Delivered via a Design-Build agreement with Mascaro)

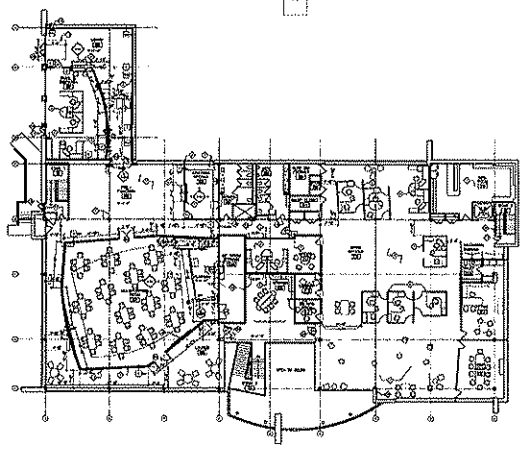




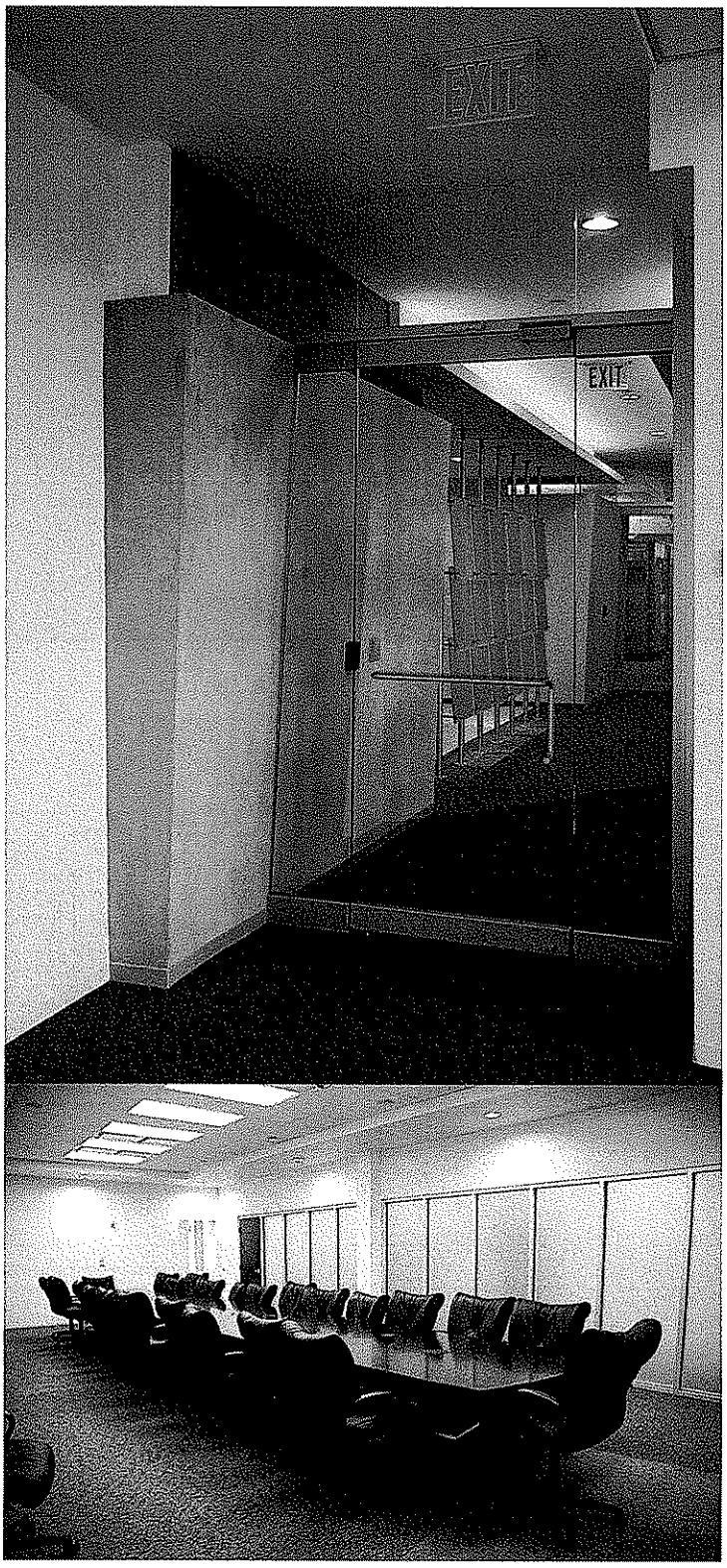
This project involved interior renovations to an existing two-story office building in the Regional Industrial Park in O'Hara Township outside of Pittsburgh, Pennsylvania. The work included the reconfiguring of existing work stations and the creation of new offices, a computer room, conference rooms, and a catering kitchen. A multi-purpose room and pre-function areas were also designed and built, and new signage was developed for the offices.

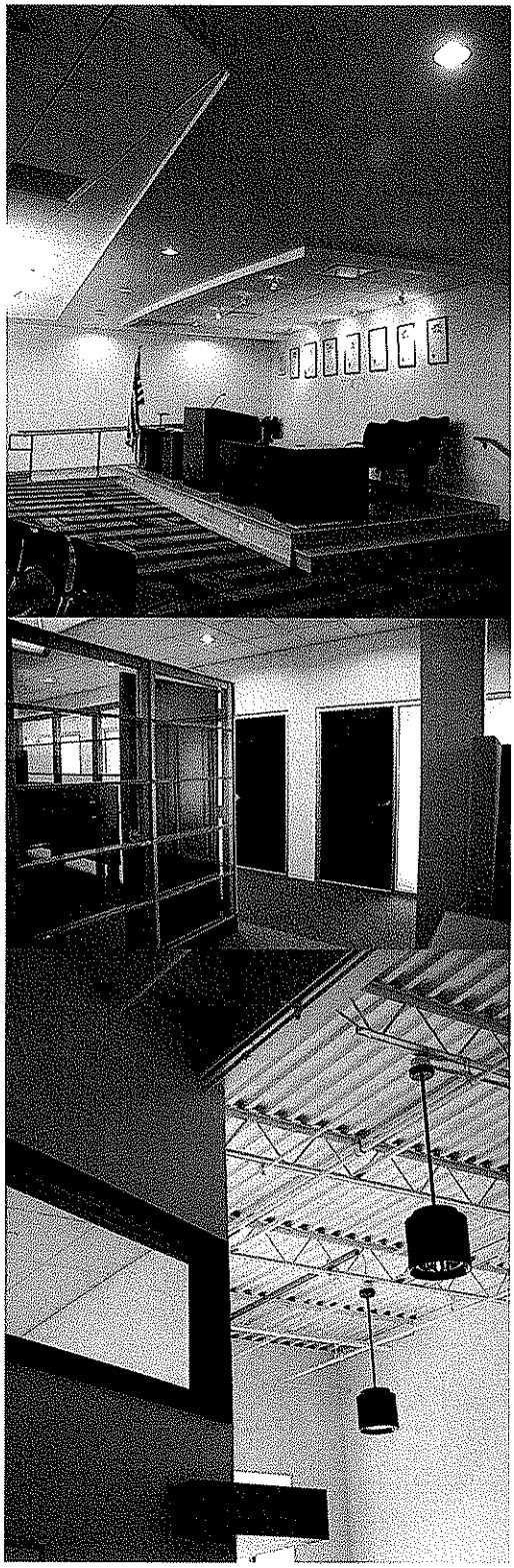






PERFIDO WEISKOPF WAGSTAFF + GOETTEL

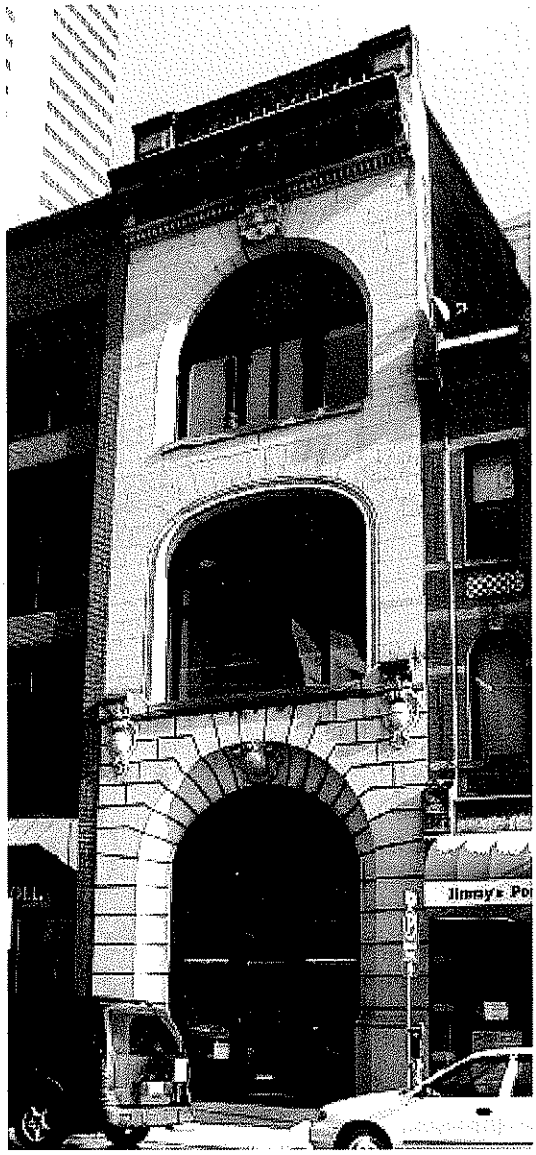




PERFIDO
WEISKOPF
WAGSTAFF +
GOETTEL

SECTION 4
REFERENCES

REFERENCES



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SECTION 5
FORMS

(RFQ forms are included behind cover letter)