
M C K I S S I C K
A S S O C I A T E S
A R C H I T E C T S

CONTACT INFORMATION

Vern L. McKissick III
Owner/Architect
vmckissick@mckissickassociates.com

Paula Mann
Marketing Director
pmann@mckissickassociates.com



View of Harrisburg's city skyline and our office along the riverfront (facing the river on Front Street, the second building in from the right).

HARRISBURG, PA

Simonton Mansion
317 North Front Street
Harrisburg, PA 17101

717. 238. 6810 phone
717. 238. 6830 fax



View of downtown Winston-Salem

WINSTON-SALEM, NC

Piedmont Leaf Lofts
401 East 4th Street, Suite 203
Winston-Salem, NC 27101

336. 722. 6152 phone
336. 722. 6192 fax

M C K I S S I C K
A S S O C I A T E S
A R C H I T E C T S

Our firm is proud to be family owned and operated. Owner Vern McKissick and his wife, Kristen, established McKissick Associates in 1999, envisioned a mid-sized firm with the mission of providing full-service architecture to a more select clientele. Our full staff includes 4 registered architects and 4 LEED™ accredited professionals.

McKissick Associates is an active member with the American Institute of Architects (AIA national & local chapters), CEFP (Council for Educational Facility Planners International) and the US Green Building Council (USGBC).

LICENSE INFORMATION

Professional Corporation....Sole Owner & President: Vern L. McKissick III
NCARB Registration Owner: Vern L. McKissick III..... 45271 (1994)
Federal Tax ID..... Firm: McKissick Associates.....25-186-1595

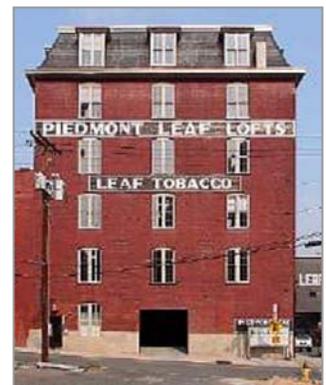
HARRISBURG, PENNSYLVANIA

McKissick Associates' office was established in Harrisburg, PA in 1999. The firm's first projects focused on the underserved rural school districts of northern and central Pennsylvania, however, during the past five years, clientele has shifted to larger districts in urban settings. Working with challenging, compact sites and the modernization of historic schools have become a particular specialty of the firm. Our office is located along the riverfront only 2 blocks from the state capitol in the historic 1870 Simonton Mansion.

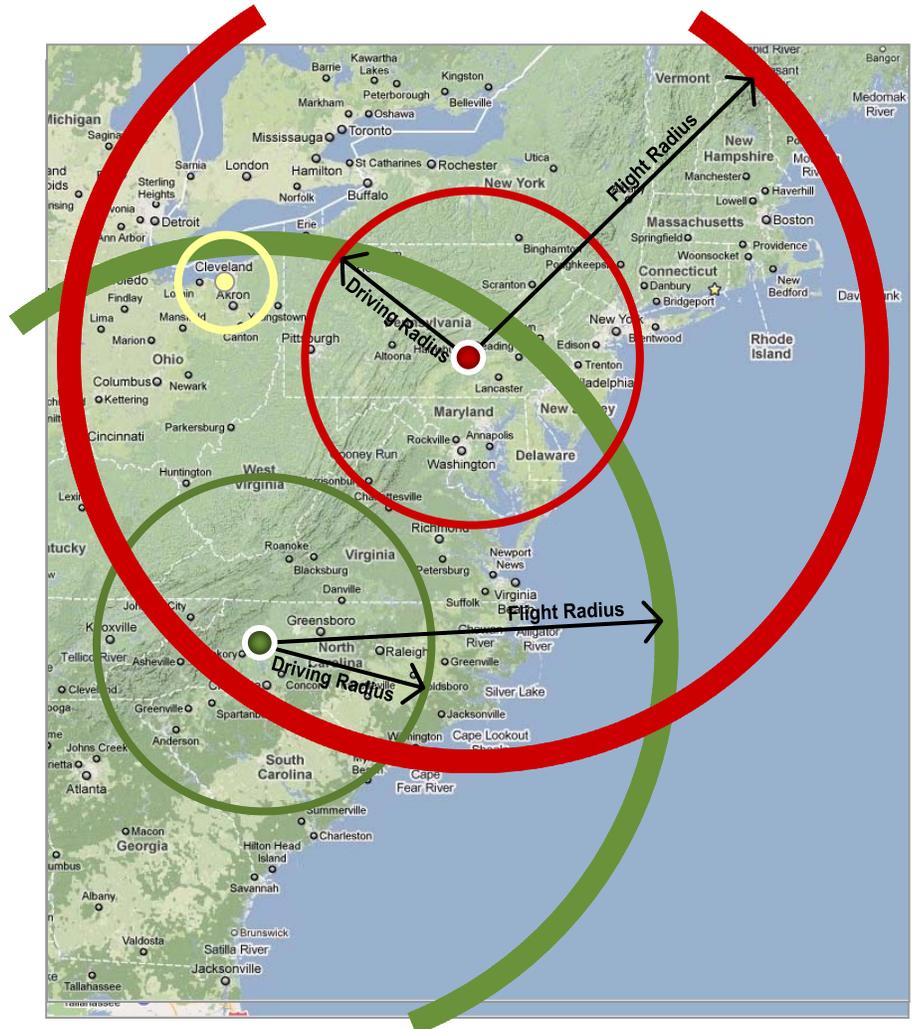


WINSTON-SALEM, NORTH CAROLINA

A woman owned firm that specializes in Interior Design, Educational Planning & Public Relations, McKissick Associates InSights is our affiliated firm in Winston-Salem, North Carolina. Located in downtown Winston-Salem in the historic Piedmont Leaf Lofts, a former tobacco warehouse adapted for mixed commercial and urban residential lofts, our office was opened in 2007.



The practical territory for McKissick Associates includes local clients (within a 3 hour driving radius of each office) and regional clients (within a 3 hour flight radius of each office). Within these areas, we do not include any additional fees for travel or transportation as we consider these distances within reasonable time limits for single day meetings.



Our firm has the unique advantage of including a flight radius as our company owner, Vern McKissick, is an instrument-rated pilot. His aircraft is a single-engine turbo-prop and carries 4 passengers in addition to moderate cargo weight.

The aircraft also enables our firm to take advantage of aerial photography for comparing building sites and for recording general construction progress.

M C K I S S I C K
A S S O C I A T E S
A R C H I T E C T S



Above: the new library interior at the McCall Middle School for the Montoursville Area School District. The Library was created by infilling the 2-story courtyard

Firm Resources and Relevant Skills

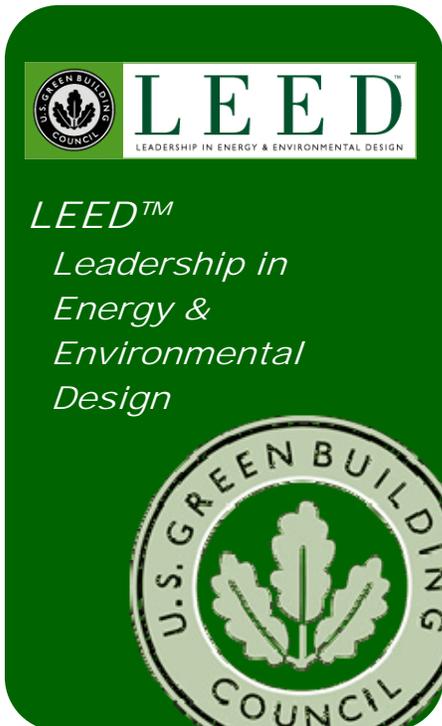
You may find this historic preservation experience of value. Our affection for historic structures, sensitivity to historic neighborhoods and experience with adaptive reuse allows us to evaluate older buildings with a more holistic eye for their potential contributions to the community. Though not every old building can (or should) be saved, you can be assured that we assist every client in objectively determining the highest and best use of construction resources to serve the needs of each community.

McKissick Associates is dedicated to creating community architecture. In establishing McKissick Associates, Vern has focused upon architectural projects that reinforce communities. His 1999 master plan for the Dauphin County Courthouse and offices resulted in the commissioners determining to stay in downtown Harrisburg, reinforcing the community. He has over 10 years of service on the Harrisburg City Planning Commission, and is the past Historic Review Board Architect for the Borough of Wellsboro.

LEED™ Familiarity & Project Experience

Our firm has done LEED™ certified projects in addition to a number of unrated green projects. The most prominent of these is the St. Stephen's K-8 School in downtown Harrisburg, PA. This LEED™ Silver project integrated 5 buildings within an urban city block including the original 1800s cathedral and expanded the schools capacity to 280 students with the conversion of a 1920s parking garage into a modern classroom facility. **The St. Stephen's project has received national recognition and appears as a case study in a book written by Jean Carroon, FAIA "Sustainable Preservation: the Greening of Existing Buildings" from the publisher, John Wiley & Sons, in 2010.**

Other "green" designs include projects for school districts in Pennsylvania including the new Wellsboro Area High School (designed to LEED™ Silver), the McCall Middle School for Montoursville Area School District (currently nearing the end of construction as a Green Globes school) and the LEED™ Gold Roosevelt Middle School, which is currently in design. We consider the majority of our projects to be "shades of green", as our clients have always faced the challenges of operational costs and maintenance. We have been utilizing geo-thermal system design and off-peak, alternative energy systems integration since the early 1990s. Our implementation of green design is largely centered around common sense and has been for more than 20 years.



Business Structure, Financial Stability, Judgments & Insurability

Our company is a professional corporation and its sole owner is Vern McKissick, III, AIA. Leadership roles are established as associate partners who participate in profit sharing. Our company makes all asset purchases out of cash and carries no debt. We have a significant line of credit available should the firm ever require additional resources to maintain consistent cash flow. In 2006, we expanded geographically into the North Carolina market and our office in Winston-Salem was formally established in 2007.

Our practice currently carries \$3 million professional liability insurance and \$2 million for general liability. Additional insurance can be provided if required.

Right top: a 3-D computer rendering of the Summerfield Elementary School showing the historic stone gymnasium at right.

Right bottom: Interior of historic stone gymnasium at Summerfield Elementary prior to construction.

Guilford County Schools
Greensboro, North Carolina



M C K I S S I C K
A S S O C I A T E S
A R C H I T E C T S

VERN MCKISSICK III, AIA..... PRINCIPAL-IN-CHARGE



The son of a school superintendent and an art teacher, Vern McKissick is a Penn State graduate with degrees in architecture and construction management. A licensed architect in seven states, he has been involved in over \$950,000,000 in educational project design and construction in Pennsylvania, New York, North Carolina, and Connecticut. Vern is active in the American Institute of Architects Committee on Educational Design and is a Recognized Educational Facility Planner (REFP) by the Council for Educational Facilities Planners International (CEFPI). He has also been certified by the US Green Building Council as a LEED™ Accredited Professional for "green" design.

CARL KANASKIE JR., AIA.....PROJECT MANAGER



A graduate of the University of Florida with a masters from the University of South Florida, Carl is a registered architect and has been with McKissick Associates for the past 10 years. He is a LEED™ accredited professional and has been the project manager for all of the firm's LEED™ rated facilities. Proficient in more than planning & design, Carl has extensive knowledge of building details and constructability. He is an associate partner with the firm and directs both the design and production studios for our office in Harrisburg, PA.

GINA DOUTY HISTORIC PRESERVATIONIST



Gina Douty graduated from Penn State University with a major in Architecture with special studies in Historic Preservation. Previous work experience includes the position of Architectural Designer II in the Division of Architecture and Conservation's Bureau of Sites and Museums for the Pennsylvania Historical and Museum Commission (PHMC). Since 2000, Gina has overseen historic preservation and rehabilitation projects including structure reports, rehabilitation proposals, building research, historic architectural review board submissions for clients, and grant writing for McKissick Associates.

KRISTEN MCKISSICK GRAPHICS & PUBLIC RELATIONS



Kristen has been providing public presentations, assistance with website postings, printed brochures and graphics for feasibility studies since 2001. She studied architecture at the Pennsylvania State University and computer modeling at the Vancouver Film School. Each element created as part of the study is unique to that district. These graphics allow for a clear communication between community and the school board by representing complex issues in a clear and visual way.

McKissick Associates maintains two fully outfitted offices in Harrisburg, PA and in Winston-Salem, NC. Each office is equipped with a Windows 2003 Server, each having over a terabyte of fixed disk storage. Encrypted VPN tunneling between offices allows easy exchange of information as well as remote scheduled offsite backup capability so that client data is secure, protected and redundant.

ELECTRONIC CAD MODELING

Three dimensional models are occasionally required to properly communicate design concepts. McKissick Associates uses a combination of AutoDesk Revit Architecture 2011, Google Sketch-up 8, AutoDesk 3D Viz and FormZ to develop and render our models. Still images and production quality animations are created on our render-farm configured, dual-processor machines.

DOCUMENT FORMATS

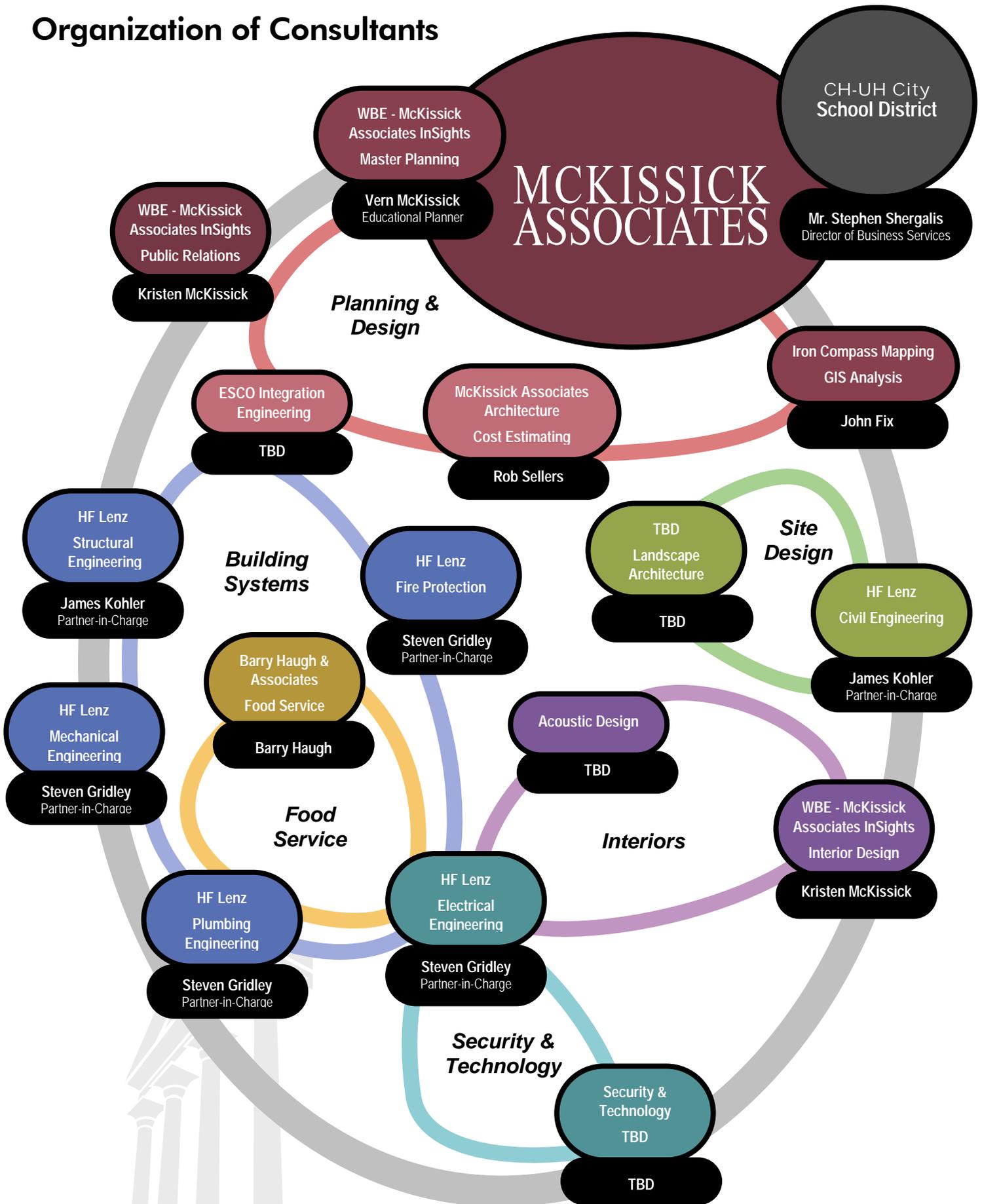
CAD documents will be produced using AutoCAD Architecture 2011 and AutoCad 2011 and can be made available in their native Architectural Desktop DWG format, DXF format or as layered PDFs. Interactive presentation graphics produced for the study will be done using Microsoft PowerPoint and images for posters and large format printed presentation may be created in Adobe Master Collection Creative Suite 5.

ELECTRONIC CAD DOCUMENTS

Should the study move forward into a construction project and should McKissick Associates Architects be retained as the Architect of Record, we will provide the Owner with copies of all CAD files developed for the project. It is our policy to provide a set of documents to the owner at the end of bidding including all changes made during the bidding process as well as alternates selected. At the end of construction, we will further update the CAD dataset to include major as-built changes made during the construction period.

During construction, electronic copies of drawings can be made available to the contractors for use in the preparation of coordination and shop drawings upon receipt of a properly executed waiver of liability by the contractor and owner.

Organization of Consultants

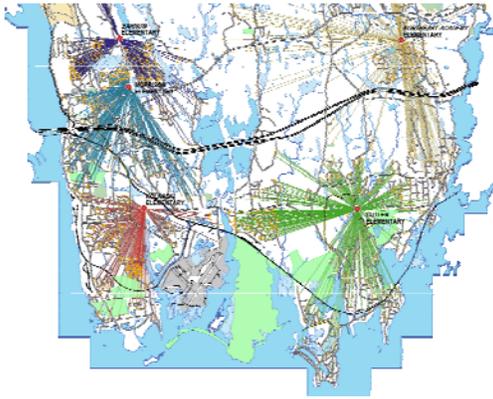


H.F. LENZ COMPANY



GEORGE A. MCMILLAN, IV, PE
PROJECT ENGINEER, OHIO OFFICE

Mr. McMillan is responsible for overseeing the design group in H.F. Lenz Company's Ohio office. As Project Engineer, he has overseen all facets of design, including electrical, controls, HVAC, plumbing, fire protection, and life safety for a wide range of new and retrofit projects for educational facilities and healthcare facilities. He is experienced in the design of power distribution systems, control systems, uninterruptible power supplies, lighting and emergency lighting systems, fire alarm systems, security, sound, and telephone systems. He is responsible for coordination with the client, the architect, regulatory agencies, and the engineering staff; project scheduling; and other project management functions. (Please see the following pages for complete information.)



The map above shows the Groton Public School System. Each line indicates a Middle School student and the school which that child attends. This scatter map was created from information gathered by Iron Map for Mckissick Associates Architects.

IRON COMPASS MAP COMPANY



JOHN FIX
OWNER/CARTOGRAPHER/SOFTWARE DEVELOPER

Mr. Fix, the owner of Iron Compass, has been developing cutting edge and creative solutions to solve organizational problems with GIS for over 16 years. He founded Iron Compass Map Company during the corporate downsizing of MapQuest.com by parent company AOL Time Warner. Prior to Mr. Fix's 10 years with MapQuest.com, he worked for three years at the Lancaster County Planning Commission (PA) developing the County's GIS program. Shortly after starting Iron Compass, Mr. Fix's passion to help emergency responders was realized through the development of On-Scene Xplorer.



Food Service kitchen designed by Barry Haugh for the East Lycoming Career and Technology Center in Hughesville, PA.

BARRY HAUGH & ASSOCIATES

BARRY HAUGH
PRINCIPAL-IN-CHARGE

Mr. Haugh has been a member of the Foodservice Consultants Society International since 1970 and has been the principal of this company for more than 30 years. He has completed more than 40 kitchen and food service designs for educational facilities with Vern McKissick and their professional relationship spans more than 17 years.

M C K I S S I C K
A S S O C I A T E S
A R C H I T E C T S



Johnstown Headquarters
1407 Scalp Avenue
Johnstown, PA 15904
Phone: 814-269-9300
Fax: 814-269-9301
www.hflenz.com

Ohio Office
322 State Street
Conneaut, OH 44030
Phone: 440-599-7800
Fax: 440-599-7801

Pittsburgh Office
1051 Brinton Road
Pittsburgh, PA 15221
Phone: 412-371-9073
Fax: 412-371-9076

Currently in its 65th year, the H.F. Lenz Company is a Pennsylvania-based 175 person firm offering a full range of engineering services for building systems, infrastructure, and industry. Our projects span the nation, with the heaviest concentration in the Northeast, and exceed \$530 million in MEP, Structural and Civil construction annually. Each market sector—education, corporate, government, health care, and industry—is served by a team of specialists who understand the unique needs of the clients they serve.



Services offered include:

- Mechanical Engineering
- Electrical Engineering
- Plumbing Engineering
- Life Safety / Fire Protection Engineering
- Telecommunications Engineering
- Energy Management
- Security Systems Engineering
- Civil Engineering
- Structural Engineering
- Surveying
- Construction Phase Services
- Commissioning
- ADA Compliance Evaluations
- LEED™ Design Services



Educational facilities have been a major part of the H.F. Lenz Company’s professional practice throughout our 65 years of operation. We have provided the mechanical/electrical evaluation, design, and construction administration for literally hundreds of educational facilities throughout West Virginia and Pennsylvania. Our portfolio of projects includes child care centers; public primary and secondary schools; Catholic Diocese schools; vocational-technical schools; colleges and universities; and environmental education centers for the Pennsylvania Department of Conservation and Natural Resources. This experience includes feasibility studies, technical assistance studies for energy conservation measure grant applications, the design of new facilities, and the design of alterations and renovations. These projects include both *PlanCon* (in Pennsylvania) and West Virginia School Building Authority reimbursable projects and those funded entirely with local resources.

Our engineers and field representatives have extensive experience in all of the specialized areas that are common to educational facilities including classrooms, libraries, computer rooms, science laboratories, gymnasiums, auditoriums, kitchens, cafeterias, vocational-technical areas, pools, shower and locker rooms, secretarial and administrative offices, teachers’ lounges, and storage / maintenance facilities. We are also knowledgeable of ADA requirements as they relate to the design of mechanical, electrical, and fire protection / life safety systems.

Experienced Project Team

The team that will serve this contract is the same H.F. Lenz Company project team that has collaborated with McKissick Associates on the completion of over **\$300,000,000 in educational facilities construction and approximately 20 feasibility studies for various school districts since 1990.**



Primary and secondary educational facilities have been a major portion of the H.F. Lenz Company's business throughout our 65-year history. Nearly all projects begin with a feasibility study, also known as a major maintenance needs study. This effort involves identifying building system deficiencies and energy conservation opportunities as well as developing a prioritized improvement plan including cost estimates, phasing, and identification of funding sources. Evaluations have been completed recently for over 250 buildings in 55 school districts including:

Mifflin County School District
Lewistown, Pennsylvania
15 buildings

Erie School District
Erie, Pennsylvania
28 buildings

Monongalia County Board of Education
Morgantown, West Virginia
26 buildings

Punxsutawney Area School District
Punxsutawney, Pennsylvania
13 buildings

School District of Haverford Township
Havertown, Pennsylvania
13 buildings

Williamsport School District
Williamsport, Pennsylvania
13 school buildings and 2 service buildings

Philipsburg Osceola School District
Philipsburg, Pennsylvania
Seven buildings

Indiana Area School District
Indiana, Pennsylvania
Six buildings

Jersey Shore School District
Jersey Shore, Pennsylvania
Six buildings

North Pocono School District
Moscow, Pennsylvania
Six buildings

Altoona Johnstown Diocese
Altoona, Pennsylvania
Five buildings

Ligonier Valley School District
Ligonier, Pennsylvania
Five buildings

Penns Valley Area School District
Five buildings

Peters Township School District
McMurray, Pennsylvania
Five buildings

Southern Huntingdon School District
Three Springs, Pennsylvania
Five buildings

Somerset Area School District
Somerset, Pennsylvania
Five buildings

Troy Area School District
Troy, Pennsylvania
Five buildings

Tuscarora School District
Tuscarora, Pennsylvania
Five buildings

Blairsville Area School District
Blairsville, Pennsylvania
Four buildings

Milton School District
Milton, Pennsylvania
Four buildings

Montoursville School District
Montoursville, Pennsylvania
Four buildings



North Star School District
Boswell, Pennsylvania
Four buildings

Palmerton School District
Palmerton, Pennsylvania
Four buildings

Penn Cambria School District
Cresson, Pennsylvania
Four buildings

Redbank Valley School District
New Bethlehem, Pennsylvania
Four buildings

Richland School District
Johnstown, Pennsylvania
Four buildings

Wellsboro Area School District
Wellsboro, Pennsylvania
Four buildings

Windber Area School District
Windber, Pennsylvania
Four buildings

Altoona School District
Altoona, Pennsylvania
Three buildings

Bedford Area School District
Bedford, Pennsylvania
Three buildings

Cambria Heights School District
Patton, Pennsylvania
Three buildings

Clearfield Area School District
Clearfield, Pennsylvania
Three buildings

Conemaugh Township School District
Davidsville, Pennsylvania
Three buildings

Ferndale High School
Johnstown, Pennsylvania
Three buildings

Greater Johnstown School District
Johnstown, Pennsylvania
Three buildings

Greater Latrobe Area School District
Latrobe, Pennsylvania
Three buildings

Pleasant Valley School District
Brodheads ville, Pennsylvania
Three buildings

Riverview School District
Oakmont, Pennsylvania
Three buildings

Spring Cove School District
Roaring Spring, Pennsylvania
Three buildings

Tussey Mountain Area School District
Saxton, Pennsylvania
Three buildings

Bellwood Antis School District
Bellwood, Pennsylvania
Two buildings

Berlin Brothersvalley School District
Berlin, Pennsylvania
Two buildings

Blacklick Valley School District
Nanty-Glo, Pennsylvania
Two buildings

Brockway Area School District
Brockway, Pennsylvania
Two buildings

Clarion-Limestone School District
Stattanville, Pennsylvania
Two buildings

Hollidaysburg Area School District
Hollidaysburg, Pennsylvania
Two buildings

Homer Center School District
Homer City, Pennsylvania
Two buildings



Moshannon Valley School District
Houtzdale, Pennsylvania
Two buildings

North Clarion School District
Tionesta, Pennsylvania
Two buildings

Northern Cambria School District
Barnesboro, Pennsylvania
Two buildings

Shade Central City School District
Cairnbrook, Pennsylvania
Two buildings

Shanksville-Stonycreek School District
Shanksville, Pennsylvania
Two buildings

Sto-Rox School District
McKees Rocks, Pennsylvania
Two buildings

Taylor County Board of Education
Grafton, West Virginia
Two buildings

United School District
Armagh, Pennsylvania
Two buildings

Cumberland Perry Area
Vocational Technical School
Mechanicsburg, Pennsylvania
One building

Northern Bedford School District
Loysburg, Pennsylvania
One building

Pittsburgh School District
Pittsburgh, Pennsylvania
One building



Mr. Gridley has been responsible for the design of schools, college and university facilities, hospitals, and renovation/ retrofit of historic buildings for private, public, and governmental agencies. He is experienced in the design of chilled water, steam, hot water, refrigeration, air distribution, heat recovery and control systems, power distribution systems, and interior building distribution systems of all types. Mr. Gridley works with the client to develop the project scope, timetable, system concepts, and budget. He is responsible for allocating company resources and supervising the design of all trades. Ultimately, he is responsible for the successful and timely completion of the project. A partial list of his project experience includes:

Mifflin County School District, Pennsylvania

- *Feasibility Study*
- *Boiler replacement at six buildings*
- Lewistown Elementary School:*
 - *Additions and renovations*
- Lewistown High School:*
 - *Chiller replacement*
 - *Tri-fuel boiler installation*
 - *Electric heat conversion to hot water*
- East Derry Elementary School:*
 - *Additions and renovations*

Scranton School District, Pennsylvania
Study of 19 buildings

- Montoursville School District, Pennsylvania**
- *McCall Middle School - Renovation and addition; the project included a geothermal heat pump system*
 - *High school renovations and additions*

Hepburn Lycoming Elementary School
Williamsport Area School District
Renovations and additions to 55,000 sq.ft. school including geothermal heat pump system

Milton Area Jr/Sr High School
Milton, Pennsylvania
Addition and renovations

Big Spring School District
Newville, Pennsylvania

- *Big Spring Middle School- Renovation of a 144,000 sq.ft. High School building*
- *Mt. Rock Elementary School- Renovation of a 68,000 sq.ft. former Middle School building*

Rock Butler Middle School
Wellsboro, Pennsylvania

- *Library HVAC upgrade and toilet exhaust upgrade*
- *Sprinkler upgrade*
- *New emergency generator*

Charolette Lappla Elementary School
Wellsboro, Pennsylvania
Renovation and 17,500 sq.ft. addition

Abington School District, Pennsylvania

- *New Copper Beach Elementary*
- *New Highland Elementary*
- *New Overlook Elementary*
- *New Roslyn Elementary*

Mount Lebanon High School
Mount Lebanon, Pennsylvania
219,500 sq.ft. renovation and 233,300 sq.ft. addition - (currently in design - being designed to attain LEED Silver)

Education

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

Experience

H.F. Lenz Company 1979 - Present

Professional Registration / Certification

Licensed Professional Engineer in Pennsylvania and 40 additional states

Professional Achievements and Affiliations

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



Mr. McMillan is experienced in the design of power distribution systems, control systems, uninterruptible power supplies, lighting and emergency lighting systems, fire alarm systems, security, sound, and telephone systems. He is responsible for coordination with the client, the architect, regulatory agencies, and the engineering staff; project scheduling; and other project management functions. His project experience includes:

Warren County School District
Warren, Pennsylvania

- Boiler replacement at four schools
- Fire Alarm System replacement at Warren Area High School (130,000 square feet).
- Fire Alarm system replacement at Beaty Jr/Sr High School (95,000 square feet).
- Stage Lighting Panel Replacement at four schools
- Security camera system at 12 schools
- Gymnasium ventilation study
- Stage dimming panel replacement
- Library air conditioning
- Air conditioning study
- Air conditioning replacement

Windber Elementary School
Windber, Pennsylvania

Complete electrical and telecommunications design for the new 96,500 sq. ft. facility including all lighting, power, fire alarm, data, telephone, emergency power, and miscellaneous signaling systems for the facility

Clarion-Limestone High School
Strattanville, Pennsylvania

Complete electrical and telecommunications design for the existing 130,000 sq. ft. facility including all lighting, power, fire alarm, data, telephone, emergency power, and miscellaneous signaling systems for the facility

Saint George Grade School
Erie, Pennsylvania

Electrical and Life Safety systems, including fire alarm system, upgrade for the existing facility

East Side Elementary School
Johnstown, Pennsylvania

Complete electrical and telecommunications design for the existing 104,000 sq. ft. facility including all lighting, power, fire alarm, data, telephone, emergency power, and miscellaneous signaling systems for the facility

Milton Area Middle and High School
Milton, Pennsylvania

Complete electrical and telecommunications design for the existing 295,000 sq. ft. facility including all lighting, power, fire alarm, data, telephone, emergency power, and miscellaneous signaling systems for the facility

Homer Center Elementary School
Indiana, Pennsylvania

Complete electrical and telecommunications design for the existing 96,500 sq. ft. facility including all lighting, power, fire alarm, data, telephone, emergency power, and miscellaneous signaling systems for the facility

Northern Bedford High School
Bedford, Pennsylvania

Design of all computer data, telephone, cable television, fire alarm, lighting, and power systems for the entire facility

Clarion Elementary School
Clarion, Pennsylvania

Large Group Instruction area addition and emergency life safety upgrades including a new emergency generator, emergency lighting and fire alarm system

Education

Graduate Studies in Engineering Management, 1999-2003, Kennedy Western University • Bachelor of Science, Electrical Engineering Technology, 1996, University of Pittsburgh at Johnstown

Experience

H.F. Lenz Company 1994 – Present • Dynamic Design Engineering 1990 – 1994

Professional Certification

Licensed Professional Engineer in Pennsylvania and Ohio

Professional Affiliations

National Society of Professional Engineers and Pennsylvania Society of Professional Engineers • Named 2007 Young Engineer of the Year by the Pennsylvania Society of Professional Engineers (PSPE)



Ms. Jefferys is experienced in the design of building systems. Ms. Jefferys HVAC experience includes the design of air and water heating/cooling systems, boilers, chillers, geothermal systems, steam systems, and temperature control/ energy management systems. Her experience in all trades is beneficial when coordinating disciplines. She is responsible for HVAC design and some project management duties such as coordination with the client, the architect, regulatory agencies, and the engineering staff. Her project experience includes (*indicates prior experience):

Meadville Area Middle School/High School
Meadville, Pennsylvania

HVAC design for classroom additions and renovations to existing offices and cafeteria

Mercyhurst Preparatory School*

Erie, Pennsylvania

Heating and Ventilation design for new gymnasium

Warren County School District

Warren, Pennsylvania

– *Computer Room air conditioning at Allegheny Valley Elementary School*

– *HVAC design for Technical Education Labs at four different schools*

– *Ventilation design for Welding shop addition*

Mercyhurst College*

Erie, Pennsylvania

– *D'Angelo Performing Arts Recital Hall geothermal heat pump system design*

– *Hammermill Library/Weber Hall geothermal heat pump system design*

Pennsylvania State University

University Park, Pennsylvania

Dutton Office Renovation

Edinboro University of Pennsylvania

Edinboro, Pennsylvania

– *HVAC design for new Music Building*

– *HVAC design for historic renovation to Academy Hall*

– *Compton hall radon exhaust system*

– *Boiler Replacement for Ross Hall*

– *HVAC Energy Upgrades for Library condenser water system*

– *HVAC Energy Upgrades for Ghering Health Center chilled water system*

– *HVAC Energy Upgrades for Van Houten Dining Hall steam boiler, chillers, pumps, kitchen makeup air & exhaust*

– *Heating, Ventilation, & dust collection design for pottery workshop in Loveland Annex*

Pennsylvania State University – Erie

The Behrend Campus

Erie, Pennsylvania

HVAC design for the renovation of Office areas in the Reed Student Union Building

Martin Marietta Laboratories

Baltimore, Maryland

HVAC design for a new 10,000 sq.ft. cleanroom facility

Education

Bachelor of Architectural Engineering, 1988, Pennsylvania State University

Experience

H.F. Lenz Company 2002 – Present

Lakewood Engineering June 1994 – April 1999

Hlifka & Associates November 1991 – April 1994

Southland Industries January 1989 – November 1991

Professional Certification

Licensed Professional Engineer in Pennsylvania



Mr. Hartland specializes in the electrical design of primary and secondary educational facilities. In fact, in his 20+ years of experience he has been involved in the design of over 100 projects, including both new construction and renovation projects for numerous school districts. His responsibilities include the coordination and scheduling of electrical engineering, as well as the supervision of multi-discipline design teams. He has extensive experience in the design of public address and communication systems; power distribution systems; emergency power systems and monitoring; uninterruptible power supplies; computer room power systems; lighting systems; fire alarm and life safety systems; fire detection systems; computer-based life safety systems; high-security systems; direct digital automatic temperature control systems; and computer-based lighting control systems. He has served as Project Engineer or Electrical Design Engineer on the following projects:

Mifflin County School District
Lewistown, Pennsylvania
Feasibility study of 15 buildings
– *Renovations and additions to East Derry Elementary School*
– *New Lewistown Elementary School*
– *New chiller at Lewistown High School*
– *Science Room renovation at Lewistown High School*

Scranton School District
Scranton, Pennsylvania
Feasibility study of 19 buildings

Hazelton School District
Hazelton, Pennsylvania
Feasibility study of 11 buildings

Richland School District
Johnstown, Pennsylvania
– *Building evaluations, four facilities*
– *Geothermal heat pump study*
– *Sr. High HVAC renovation - 150,000 sq.ft.*
– *Middle school renovation - 110,000 sq.ft.*
– *University Park elementary addition and renovation - 96,000 sq.ft.*

Juniata Mifflin Vo-Tech
Lewistown, Pennsylvania
Feasibility Study

Haverford Township School District
Havertown, Pennsylvania
– *Feasibility study*
– *Haverford High School auditorium renovations*
– *Haverford High School Home Economics exhaust*
– *Stadium renovations*
– *Oakmont Elementary School boiler replacement*

Homer Center School District
Homer Center, Pennsylvania
Feasibility studies (two buildings)

North Pocono School District
Moscow, Pennsylvania
Feasibility study

Jersey Shore School District
Jersey Shore, Pennsylvania
– *Feasibility study*
– *Additions and alterations to High School - 295,000 sq.ft.*
– *Additions and alterations to Middle School*
– *Additions and alterations to Elementary School*

Latrobe Area School District
Latrobe, Pennsylvania
Renovations and additions - 300,000 sq.ft.

Education

Bachelor of Science, Electrical Engineering Technology, 1981, University of Pittsburgh at Johnstown

Experience

H.F. Lenz Company 1983 – Present

Professional Registration / Certification

Licensed Professional Engineer in Pennsylvania • LEED™ Accredited Professional



Mr. Kormanik has designed complete plumbing and sprinkler systems for schools, colleges, hospitals, laboratories, office buildings, industrial facilities, prisons, and military installations. He is responsible for plumbing and sprinkler system design, layout, calculations; selection and sizing of equipment; cost estimates; and site surveys. He is knowledgeable of all applicable plumbing codes.

Mr. Kormanik supervises drafting personnel; coordinates the plumbing design with utility companies, with other trades, and with the Project Engineer and Project Architect; and is responsible for assembling complete and accurate plumbing bid documents which meet H.F. Lenz Company standards. His project experience includes:

Wellsboro High School
Wellsboro, Pennsylvania
New high school – 120,000 sq.ft.

Milton Junior/Senior High School
Milton, Pennsylvania
Renovation and additions – 295,000 sq.ft.

Carrick High School
Pittsburgh, Pennsylvania
Renovations and additions – 236,000 sq.ft.

Ligonier Valley High School
Ligonier, Pennsylvania
Renovations and additions – 150,457 sq.ft.

Jersey Shore School District
Jersey Shore, Pennsylvania
*– Renovations and additions to high school-
219,000 sq.ft.*
*– Renovations and additions to middle school-
135,110 sq.ft.*

Richland School District
Johnstown, Pennsylvania
– Sr. High HVAC renovation – 150,000 sq.ft.
– Middle school renovation - 110,000 sq.ft.

Brockway High School
Brockway, Pennsylvania
– New multi-purpose building and facilities
*– Renovation design alterations and additions
to existing building*

Education

Associate, 1983, Interior Design, Art Institute of Pittsburgh

Experience

H.F. Lenz Company 1985 - Present

Professional Registration / Certification

Certified in Plumbing Design, American Society of Plumbing Engineers
Certified Plumbing Plans Examiner, Building Officials & Code Administrators International
Certified Plumbing Inspector, Building Officials & Code Administrators International

Berlin-Brothersvalley
High School and Elementary School
Berlin, Pennsylvania
*Plumbing design for renovations, new additions
and site revisions*

Indiana School District
Indiana, Pennsylvania
Senior High addition and renovations

Northern Cambria High School
Kantner, Pennsylvania
Plumbing design for addition and renovations

Pleasant Valley High School
Brodheads ville, Pennsylvania
Addition and alterations

Abington School District
Abington, Pennsylvania
New Elementary Schools:
– Copper Beach Elementary – 149,000 sq.ft.
– Highland Elementary – 74,000 sq.ft.
– Overlook Elementary – 74,000 sq.ft.

New Paris Elementary School
New Paris, Pennsylvania
*Replacement of steam to water domestic water
heater, piping, valves, and fittings*



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

He is fully knowledgeable of NFPA standards and is experienced in the design of wet, dry, preaction, deluge, and special application fire protection systems. He is responsible for sprinkler system design, layout, and calculations; selection and sizing of fire protection equipment; cost estimates; and site survey work. Mr. McKendree coordinates with other trades, municipal fire protection authorities, utility companies, and with the Project Engineer and project Architect. While attending Eastern Kentucky University, Mr. McKendree earned Golden Key National Honor Society, Alpha Phi Sigma, and Who's Who Among American College Students nominations. Mr. McKendree's projects include:

Abington School District
Abington, Pennsylvania

New Elementary Schools:

- *Copper Beach Elementary -149,000 sq.ft.*
- *Highland Elementary - 74,000 sq.ft.*
- *Overlook Elementary - 74,000 sq.ft.*
- *New two story elementary school*

Haverford School District
Havertown, Pennsylvania

- *Feasibility study*
- *New Chestnutwold Elementary*
- *New Manoa Elementary*
- *Oakmont Elementary and Administration Building renovations*
- *Haverford Middle School renovation*

J. Hampton Moore Elementary School
Philadelphia, Pennsylvania
New one story elementary school

Ridgedale Elementary School
Morgantown, West Virginia

- *Addition*
- *Gymnasium addition*

Jersey Shore High School
Jersey Shore, Pennsylvania

- *Renovations and additions - 219,167sq.ft.*
- *Pool upgrade*

Montgomery High School
Montgomery, Pennsylvania
- *Renovations and additions*
- *Feasibility study*

Charlotte Lappla Elementary School
Wellsboro, Pennsylvania
Renovations and additions

Jersey Shore Middle School
Jersey Shore, Pennsylvania
Renovations

Cochran Elementary
Williamsport, Pennsylvania
Performed flow test at the site and designed the new automatic fire protection system

South Greensburg Commons
Greensburg, Pennsylvania
Sprinkler system investigation

Education

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

Experience

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

Professional Registration / Certification

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



Mr. Schmidt has a wide range of electrical engineering experience in commercial and industrial environments. His experience includes communications, direct digital controls, fire detection, energy management, power distribution, and lighting systems. His specific communications expertise includes data wiring systems including business system LANS, manufacturing automation LANS, horizontal wiring including telephony, and both fiber optic and copper backbone cabling systems. His knowledge of network architecture results from both the study of appropriate standards and manufacturers' application guides along with—and more importantly—being the responsible individual for the design, implementation, operation, and maintenance of network installations. His projects include:

Bedford Area High School
Bedford, Pennsylvania
Data cabling system design

Lower Merion School District
Ardmore, Pennsylvania
Development and implementation of WAN and LAN communications cabling and network standards for 10 sites spanning 26 square miles

The Pennsylvania State University
Erie, Pennsylvania
Design of communication cabling system for the new Research & Economic Development Center, a \$23.5 million, "smart" academic building, designed to be a state-of-the-art instructional and research facility for the School of Engineering Technology and the School of Business

Shippensburg University
Shippensburg, Pennsylvania
Design of a campus-wide data network and CATV distribution system

Carnegie Mellon University
Pittsburgh, Pennsylvania
Design of Communication cabling system for Doherty Hall, a 217,000 sq. ft. building including a Chemical Engineering Department with laboratories, offices, and classrooms

Harvard Business School
Boston, Massachusetts
Design of communication cabling system for the new Technology Operations Center including the extension and reconfiguration of the campus backbone

Bryn Mawr College
Bryn Mawr, Pennsylvania
Design of communication cabling system for Dalton Hall, a 20,000 sq.ft. academic building

West Virginia University
Charles Wise Library
Morgantown, West Virginia
Data cabling system design

Education

Graduate Studies, Manufacturing Systems Engineering Program, 1995, University of Pittsburgh
Bachelor of Science, Electrical Engineering Technology, 1990, University of Pittsburgh at Johnstown
Associate in Specialized Technology, Electronics, 1979, Penn Technical Institute

Experience

H.F. Lenz Company 1995 / Johnstown America Corporation 1994 - 1995 / LTV Steel 1991 - 1994 / Metalworking Technology, Inc. 1989 - 1991 / Lincoln Contracting & Equip. Co. 1982 - 1984

Professional Registration / Certification

Licensed Professional Engineer in Pennsylvania, PE-051691-E, Electrical Engineering
Registered Communications Distribution Designer AMP Act III Certified Network Designer
Lucent Technologies Systimax SCS, Certified Consultant Program

Professional Affiliations

Building Industry Consulting Service International (BICSI) • National Society of Professional Engineers (NSPE) • AFCOM



Mr. Kohler is responsible for the evaluation, planning, and development of sites ranging from several acres to several hundred acres. His experience includes site analysis and selection, preliminary site design, permitting, utility coordination and design, environmental assessments, wetlands evaluation and mitigation, and final site development design. He has conducted initial site assessments and analyses to identify potential development concerns such as environmental issues, permitting issues, zoning, site access, available utilities, and preliminary estimates of site development costs.

Mr. Kohler has also been extensively involved in the design of utility system infrastructure including storm and sanitary sewers, water, natural gas, and other underground utilities. Mr. Kohler has worked closely with owners in obtaining zoning permits and planning commission approvals. He is also experienced in boundary and topographic surveys, highway and bridge design, building structures, water systems, and municipal engineering. His project experience includes:

Forest Hills Senior High School
Sidman, Pennsylvania

- *Drainage design, stormwater management, erosion and sedimentation control plan, contract administration and construction management for a new tennis court complex*
- *Design of an expansion to the existing student parking area*
- *Prepared construction documents for the reconstruction of the existing football field including stormwater management facilities, re-sodding of playing surface and pedestrian walkway upgrades*

Forest Hills Middle School
Sidman, Pennsylvania

- *Prepared a master plan for the future development and improvements to the Middle School Site. The upgrades and improvements addressed included parking, traffic circulation, drainage, and athletic fields (Football, Soccer, Softball, and Baseball)*
- *Multi-Purpose Athletic Field - Design of a multi-purpose athletic field for soccer and football*

Forest Hills Elementary School
Sidman, Pennsylvania

- *Drainage design, stormwater management, erosion and sedimentation control plan, contract administration and construction management for a new tennis court complex*

Westmont Hilltop School District
Johnstown, Pennsylvania

- *Design of a new soccer field to include grading, drainage, erosion and sedimentation control, and construction management*

Slippery Rock University
Slippery Rock, Pennsylvania

- *Grading modifications, erosion and sedimentation control plan, contract administration and construction management for an existing ski slope*

United Area School District
Armagh, Pennsylvania

- *New baseball field, football field improvements and athletic practice fields*

Robert Morris University
Moon Township, Pennsylvania
New softball field

Education

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

Experience

H.F. Lenz Company 1978 - Present

Professional Registration / Certification

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

Professional Affiliations

American Society of Highway Engineers • American Institute of Steel Construction



Mr. Gindlesperger holds a bachelor's degree in Civil Engineering Technology with experience in site planning and design for numerous types of industrial, commercial, educational, and government facilities. His responsibilities in these areas include site design, site utilities, parking and traffic circulation, roadway design, stormwater management, and erosion and sedimentation control. He also has experience working with local municipalities enforcing local planning and zoning codes. He has completed continuing education in stormwater management. His project experience includes:

Forest Hills Senior High School
Sidman, Pennsylvania

- *Drainage design, stormwater management, erosion and sedimentation control plan, contract administration and construction management for a new tennis court complex*
- *Design of an expansion to the existing student parking area*
- *Prepared construction documents for the reconstruction of the existing football field including stormwater management facilities, re-sodding of playing surface and pedestrian walkway upgrades*

Forest Hills Middle School
Sidman, Pennsylvania

- *Prepared a master plan for the future development and improvements to the Middle School Site. The upgrades and improvements addressed included parking, traffic circulation, drainage, and athletic fields (Football, Soccer, Softball, and Baseball)*
- *Multi-Purpose Athletic Field - Design of a multi-purpose athletic field for soccer and football*

Forest Hills Elementary School
Sidman, Pennsylvania

Drainage design, stormwater management, erosion and sedimentation control plan, contract administration and construction management for a new tennis court complex

Ferndale Area Elementary School
Johnstown, Pennsylvania

Drainage design, stormwater management, erosion and sedimentation control plan for a building addition and parking lot expansion

Smethport Jr./Sr. High School
Smethport, Pennsylvania

Drainage design, stormwater management, erosion and sedimentation control plan for additions and alterations to the existing school

Salladasburg Elementary School
Jersey Shore, Pennsylvania

Drainage design, stormwater management, erosion and sedimentation control plan for a building addition

North Star Central Elementary
Boswell, Pennsylvania

Drainage design, stormwater management, erosion and sedimentation control plan for a building addition

National Park Service Visitor/ Orientation
Center

Sandstone, West Virginia

Site design including parking and traffic circulation, utility design, drainage design, stormwater management, erosion and sedimentation control for a new visitor and orientation center designed to meet the requirements of a LEED Platinum Rating

Education

Bachelor of Science, Civil Engineering Technology, 1998, University of Pittsburgh at Johnstown

Experience

H.F. Lenz Company 1998 – Present

Professional Registration / Certification

Licensed Professional Engineer in Pennsylvania



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

Ambridge Area High School
Ambridge, Pennsylvania
– *New two and three story, steel framed structure - approximately 246,000 square feet*
– *Demolition of the existing high school building*
– *New 1 1/2 story addition to the existing Field House,*
– *Foundation design for new grandstands*
– *Design of several concrete, grade-break retaining walls*

Huntingdon North Elementary School*
Huntingdon, Pennsylvania
New single- and two-story masonry bearing wall and steel frame structure supporting pre-cast plank floor and mezzanine areas

Huntingdon South Elementary School*
Huntingdon, Pennsylvania
New single story steel framed structure

Meyersdale Middle School*
Meyersdale, Pennsylvania
Single-story, steel framed building built between and connected to the existing Elementary School

Middletown Middle School*
Middletown, New York
New single story steel framed and masonry bearing wall structure

Penn State University
University Park, Pennsylvania
– *Managed the structural design for the new 44,000 sq.ft. Career Services Building*

Education

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

Experience

H.F. Lenz Company 1998 - Present

L. Robert Kimball & Associates 1995 – 1998 • George D. Zamias Developer 1989 – 1995

Professional Certification

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

Professional Affiliations

American Institute of Steel Construction

– *Preliminary cost estimates and cost comparisons for various framing system for the new 112,000 sq.ft. Food Science Building*

University of Charleston
Brotherton Hall
Charleston, West Virginia
Four-story, 55,000 sq.ft., design-build dormitory constructed of pre-cast hollow core plank on masonry bearing walls and miscellaneous steel framing. Spread footing foundations bear on "CLFM" fill material.

LaRoche College
Pittsburgh, Pennsylvania
Structural design for a design/build two-building expansion to Bold Hall dormitories

Carnegie Mellon University
Pittsburgh, Pennsylvania
Structural design for a cantilever roof structure to support new mechanical equipment and cooling towers

Cambria County Association for the Blind and Handicapped
Johnstown, Pennsylvania
New, 17,000 sq.ft., single story steel frame building, this building is tied to the existing facility and required an intricate geometry to maximize land area

Robinson & McElwee Law Office Building
Charleston, West Virginia
New four story steel frame office building with composite beam floor construction



H.F. Lenz Company was recently ranked in the “*Top 100 Green Design Firms*” in the Country, for three years, by ENR Magazine (June 2008, 2009, and 2011 editions). We have been a member of the United States Green Building Council since 2000 and currently have **19 LEED® Accredited Professionals on staff**. Our firm has gained a high level of knowledge in the building green process and we possess the experience to successfully apply these principles to all building projects, whether they are designed to attain LEED Certification or not. In addition, we also became an **Energy Star® Partner Firm** in 2008, and have completed numerous projects which have attained an Energy Star® Building Label.

H.F. Lenz Company currently has 34 projects that have attained various levels of LEED Certification, and 40+ projects that are currently pending LEED Certification, in total over 9 million sq.ft. of facilities. We welcome the opportunity to determine sustainable strategies and options for your unique project.

Green Building Strategies

- Optimize Building Envelope
- Light Pollution Reduction
- Water Use Reduction
- Ventilation Reduction through CO₂ monitoring
- Optimize Energy Performance
- Evaluate Heat Recovery Opportunities
 - Water source heat pumps
 - General exhaust heat/enthalpy recovery
 - Geothermal potential (aesthetic benefits)
 - Thermal comfort
- Lighting Selection and Lighting Control
- Daylighting Options and Controls
- Building Commissioning/Energy Management Controls
- Controllability of Systems



H.F. Lenz Company has been providing commissioning services for over 30 years. In addition to our own projects, we commonly commission building systems designed by other professionals. Our commissioning personnel each have a minimum of 10 years experience and are well versed in all aspects of the commissioning process from the design phase through the construction phase and operations phase/post acceptance phase. Commissioning services are carried out by our Commissioning Services Division and members of our design teams. We have performed LEED commissioning for numerous LEED registered projects. **We recently provided retro-commissioning services for seven schools in Columbus, Ohio and we have been pre-qualified with the Ohio School Facilities Commission for commissioning services throughout the state.**



The Barn at Fallingwater was selected by the National AIA as one of the top ten Green projects of 2005!



PSU School of Architecture and Landscape Architecture has attained a LEED® Gold Rating.



CMU New House was one of the first residence halls in the country to attain a LEED® Silver Rating.



PROJECTS CURRENTLY IN DESIGN OR COMPLETED IN THE PAST 5 YEARS

Abington High School
Abington, Pennsylvania
New sound system in auditorium

Abington School District
Abington, Pennsylvania
• New Copper Beach Elementary
• New Highland Elementary
• New Overlook Elementary

Ambridge School District
Ambridge, Pennsylvania
• New high school
• Design of parking spaces and walkways

Big Spring School District
Newville, Pennsylvania
Conversion of Big Spring High School into the new Big Spring Middle School

Carrick Jr./Sr. High School
Pittsburgh, Pennsylvania
Addition and renovation

Charlotte Lappla Elementary School
Wellsboro, Pennsylvania
Renovations and additions

Chestnut Ridge High School
East St. Clair Township, Pennsylvania
Site design and permitting for a new addition

Christian Leadership Academy
Latrobe, Pennsylvania
Site development

Conneaut Lake School District
Conneaut, Pennsylvania
Alice L. Schafer Elementary
• 8,000 sq.ft. classroom addition
• Renovation of existing administration area
Conneaut Lake Elementary
• 19,500 sq.ft. classroom addition
• Minor renovation to existing school
Conneaut Lake High School
• 31,500 sq.ft. gymnasium, locker, and administration addition



Abington School District. The new 149,000 sq.ft. Copper Beach Elementary School is one of three new elementary schools designed for the district

- Renovations to approximately 15,000 sq.ft. of existing space including classrooms, old gymnasium, kitchen, cafeteria, and media room

Croman Elementary
Troy, Pennsylvania
Additions and revisions

Cumberland Perry Area
Vocational Technical School
Mechanicsburg, Pennsylvania
Renovations and additions

East Derry Elementary School
Lewistown, Pennsylvania
Additions and renovations

Ferndale High School
Johnstown, Pennsylvania
Structural evaluation and pedestrian bridge

Genesee Valley School District
Belmont, New York
Additions and renovations

Greater Johnstown School District
Johnstown, Pennsylvania
New High School - Construction phase services only



Greensburg Salem School District
Greensburg, Pennsylvania
New field house and stormwater design

Haverford High School
Havertown, Pennsylvania
Stormwater drainage design

Hazleton Area School District
Hazleton, Pennsylvania
Sewage planning for elementary School

Hepburn Lycoming School District
Williamsport, Pennsylvania
Slope erosion investigation

Jamestown School District
Jamestown, New York
Energy model and various renovations and additions

Jersey Shore Area High School
Jersey Shore, Pennsylvania
Feasibility study and pool upgrades

Latrobe High School
Latrobe, Pennsylvania
Renovations and additions

Lower Merion School District
Ardmore, Pennsylvania
District-wide telecommunications network and school information and communication systems cabling standards

Lynnwood Elementary School
Haverford, Pennsylvania
Parking area paving and upgrades

McCall Middle School
Montoursville, Pennsylvania
Addition and renovations

Meadville Area Middle School and Senior High School
Meadville, Pennsylvania
Addition and renovations

Millcreek School District
Erie, Pennsylvania
Plumbing systems evaluation



Latrobe High School. The center for student creativity houses state-of-the-art sound and lighting equipment, and light-controlled window coverings.

Mountain View Elementary School
Latrobe, Pennsylvania
Renovation and addition

Mt. Lebanon School District
Pittsburgh, Pennsylvania
Renovation of the 440,000 sq.ft. high school

North Star Central Elementary
Boswell, Pennsylvania
Addition and renovations

Panama Central School District
Panama, New York
Additions and renovations

Randolph Academy
Randolph, New York
Additions and renovations

Richland High School
Johnstown, Pennsylvania
Gymnasium floor structural evaluation

The Haverford School
Haverford, Pennsylvania
100,000 sq.ft. renovation and addition to an historic structure - Goal is LEED Gold

School District of Philadelphia
J. Hampton Moore Elementary School
Philadelphia, Pennsylvania
HVAC system design



Seneca Valley School District
Harmony, Pennsylvania
Construction phase services

South Park High School
South Park, Pennsylvania
Construction phase services

Warren County School District
Warren County, Pennsylvania

- Security systems design for six schools
- Improvements to sewage treatment plant

Washington High School
Charles Town, West Virginia
New 1,500 student high school

Wellsboro Area School District
Wellsboro, Pennsylvania
New high school

Westmont Hilltop School District
Johnstown, Pennsylvania
Structural evaluation
Civil engineering for a new practice football field

Williamsport Area High School
Williamsport, Pennsylvania
Maintenance storage garage, vocational technical addition, and auditorium renovation



Bedford Area High School. The library was part of a 154,000 sq.ft. renovation to the historic high school building.



Washington High School. This new technologically advanced school includes a new Science and Technology Center that houses technology training labs, technology education, engineering, agricultural technology, and video conferencing.

ADDITIONAL K - 12 EXPERIENCE

Altoona Area School District
Altoona, Pennsylvania
Boiler and underground steam line replacement

Ambridge Senior High School
Zelienople, Pennsylvania
Mechanical design of a new senior high school

Baggaley Elementary School
Latrobe, Pennsylvania
Additions and renovations

Bedford Area High School
Bedford, Pennsylvania
Renovation of a 154,000 sq.ft. facility

Bedford Elementary School
Bedford, Pennsylvania
New 107,000 sq.ft. elementary school

Bellwood-Antis High School
Bellwood, Pennsylvania
New field house

Blairsville Area School District
Blairsville, Pennsylvania
Feasibility Study



Brockway Area Elementary School
Brockway, Pennsylvania
Renovations

Brockway Area Jr./Sr. High School
Brockway, Pennsylvania
• Renovations and addition
• Multipurpose building additions

Cambria Heights Elementary School
Patton, Pennsylvania
New construction

Cambria Heights Middle School
Patton, Pennsylvania
New construction

Capon Bridge Elementary School
Capon Bridge, West Virginia
Addition

Chief Logan Middle School
Lewistown, Pennsylvania
Energy conservation study and grant application

Clarion Jr./Sr. High School
Clarion, Pennsylvania
Renovation

Clarion Limestone Jr./Sr. High School
Strattanville, Pennsylvania
Renovation and addition



Cambria Heights Elementary School. The H.F. Lenz Company provided engineering services for this new elementary school.



East Side Elementary School. The 104,000 sq.ft. renovation and addition project included new telephone and Category 5 / fiber optic data distribution systems.

Cochran Elementary School
Williamsport, Pennsylvania
Additions and renovations

Conemaugh Township High School
Davidsville, Pennsylvania
Additions and renovations

Conemaugh Valley Jr./Sr. High School
Johnstown, Pennsylvania
Technology upgrade

Curtain Middle School
Williamsport, Pennsylvania
Boiler replacement

East Pike Elementary School
Indiana, Pennsylvania
Renovations and additions

East Side Elementary School
Johnstown, Pennsylvania
Alterations and additions

Eisenhower Elementary School
Indiana, Pennsylvania
Electrical upgrade

Elimsport Elementary School
Elimsport, Pennsylvania
Additions and renovations

Elk County Christian High School
Elk County, Pennsylvania
Renovations and addition



Elm Grove Elementary School
McMurray, Pennsylvania
Modular classroom addition

Ferndale Elementary School
Johnstown, Pennsylvania
Addition and renovations

Ferndale High School
Johnstown, Pennsylvania

- Feasibility study
- ADA renovation
- Stormwater management - new parking facility

Forest Hills Middle School
Sidman, Pennsylvania

- Site use Master Plan
- Parking area expansion
- Multi-purpose athletic field
- Roof replacement

Forest Hills School District
Cambria County, Pennsylvania

- Elementary school quality control review
- Resident inspection services

Forest Hills Senior High School
Sidman, Pennsylvania

- New tennis courts
- Student parking area expansion
- Football field upgrades

Grafton High School
Grafton, West Virginia
Addition and renovations

Greater Johnstown School District
Johnstown, Pennsylvania
District administrative offices

Gregg Township Elementary School
Spring Mills, Pennsylvania
Renovation and addition

Haverford School District
Havertown, Pennsylvania

- Feasibility study
- Auditorium renovations
- Stadium renovations
- Boiler replacement
- Structural Study

Hollidaysburg Junior High School
Hollidaysburg, Pennsylvania
Renovation

Hollidaysburg Senior High School
Hollidaysburg, Pennsylvania
Tri-fuels boiler plant and electric heat conversion

Homer Center Elementary
Homer Center, Pennsylvania
New elementary school

Indiana Area Senior High School
Indiana, Pennsylvania
Additions and renovations

Indiana Valley High School and Elementary School
Lewistown, Pennsylvania
Tri-fuels boiler plant

Juniata Gap Elementary School
Altoona, Pennsylvania
New construction

Keith Junior High School
Horsham, Pennsylvania
Boiler replacement

Keystone Elementary School
Erie, Pennsylvania
Boiler

Keystone High School
Erie, Pennsylvania
Gymnasium HVAC

Laurel Valley Elementary School
New Florence, Pennsylvania
Additions and renovations

Laurel Valley High School
New Florence, Pennsylvania
Additions and renovations

Lewistown Senior High School
Lewistown, Pennsylvania
Energy conservation study and grant application



Ligonier Valley High School
Ligonier, Pennsylvania
Renovations and additions

Ligonier Valley Middle School
Ligonier, Pennsylvania
Addition and alterations

Lincoln Elementary School
Tyrone, Pennsylvania
Renovation

Lyter Elementary School
Montoursville, Pennsylvania
New elementary school

Maple Ridge Elementary School
Somerset, Pennsylvania
Renovations

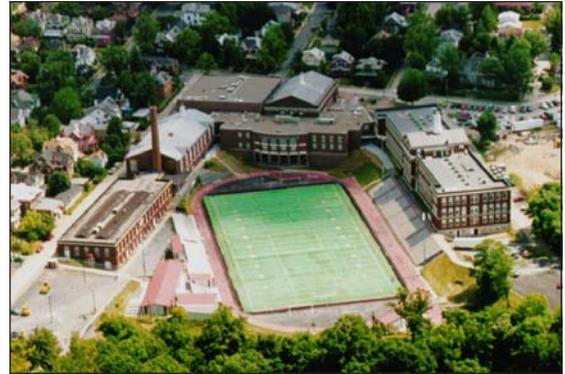
Martinsburg Elementary School
Martinsburg, Pennsylvania
New elementary school

McMurray Elementary School
McMurray, Pennsylvania
New construction

Meadville High School
Meadville, Pennsylvania
New additions including a kitchen/serving area, new life skills classrooms, and general classrooms, and renovations to the faculty lounge and offices



Martinsburg Elementary School. Low-glare lighting and an overhead air system provides the library with a comfortable learning environment.



Morgantown High School. Mechanical/electrical design services were completed for a 125,000 sq.ft. building renovation and an 83,000 sq.ft. addition.

Mellon Elementary School
Ligonier, Pennsylvania
Additions and renovations

Miles Township Elementary School
Rebersburg, Pennsylvania
Renovation and addition

Milton Area Jr./Sr. High School
Milton, Pennsylvania
Addition and renovations

Montgomery High School
Montgomery, Pennsylvania
Additions and alterations

Montoursville Area High School
Montoursville, Pennsylvania
Cafeteria addition

Morgantown High School
Morgantown, West Virginia
Addition and renovation

Moshannon Valley High School
Houtzdale, Pennsylvania
Renovation

Mountoursville School District
Mountoursville, Pennsylvania
Security systems

New Paris / Central Elementary
Fishertown, Pennsylvania
Hot water heater replacement



Northern Bedford High School
Loysburg, Pennsylvania
Renovation

Northern Cambria School District
Northern Cambria, Pennsylvania
Computer room HVAC upgrades

North Clarion Elementary School
Tionesta, Pennsylvania
Renovation

North Clarion High School
Tionesta, Pennsylvania
High school air conditioning

North Pocono School District
Moscow, Pennsylvania
Feasibility study

North Star Middle School
Boswell, Pennsylvania
Additions and renovations

Osceola Mills Elementary School
Osceola Mills, Pennsylvania
Renovation

Palmerton High School
Palmerton, Pennsylvania
Addition and renovations

Peters Township High School
McMurray, Pennsylvania
Stadium rehabilitation

Penn Cambria High School
Cresson, Pennsylvania
Renovation and addition

Penn Cambria Intermediate School
Patten, Pennsylvania
Renovations

Penn Cambria Middle School
Gallitzen, Pennsylvania
Renovation

Penns Valley Area School District
Spring Mills, Pennsylvania
Sewage treatment plant



Penn Cambria High School. Science tables around the perimeter with traditional desks in the center, provide a flexible lab and teaching space in the science room.

Penns Valley Area Jr./Sr. High School
Spring Mills, Pennsylvania
Renovation and addition

Philipsburg-Osceola Elementary School
Philipsburg, Pennsylvania
Modular classroom

Philipsburg-Osceola High School
Philipsburg, Pennsylvania
Additions and alterations

Pleasant Valley Elementary School
Brodheadsville, Pennsylvania
Renovation

Pleasant Valley Middle School
Brodheadsville, Pennsylvania
New school and new sewage treatment plant

Punxsutawney Middle School
Punxsutawney, Pennsylvania
Renovations

Queen of the World Elementary School
St. Marys, Pennsylvania
Renovations and addition

Randor Township School District
Wayne, Pennsylvania
Feasibility study for the renovation of Randor Middle School

Redbank Valley High School
New Bethlehem, Pennsylvania
Addition



Richland Area School District
Johnstown, Pennsylvania
HVAC roof units

Richland High School
Johnstown, Pennsylvania
Technology upgrade

Richland Middle School
Johnstown, Pennsylvania
Renovations

Ridgedale Elementary School
Ridgedale, West Virginia
New elementary school and addition

Riverview School District
Oakmont, Pennsylvania
Feasibility study

Roaring Spring Elementary School
Roaring Spring, Pennsylvania
Swimming pool alterations

Rock Butler Middle School
Wellsboro, Pennsylvania
HVAC upgrades

Roosevelt Middle School
Morrisville, Pennsylvania
Additions and renovations

Saint George Elementary School
Erie, Pennsylvania
Additions

Salladasburg Elementary School
Salladasburg, Pennsylvania
Additions and renovations

School District of Haverford Township
Havertown, Pennsylvania
Feasibility study

School District of Philadelphia
George Washington Carver High School for Engineering and Science
Philadelphia, Pennsylvania
Telecommunications cabling infrastructure system design for a new 225,000 sq.ft., 5-story high school



University Park Elementary School. Fiber optic and Category 5 data cabling were designed for the computer network system serving all classrooms.

Slanesville Elementary School
Slanesville, Pennsylvania
Addition

Somerset Elementary School
Somerset, Pennsylvania
New construction

Southern Huntingdon School District
Huntingdon, Pennsylvania
Feasibility study

Sto-Rox School District
McKees Rocks, Pennsylvania
Feasibility study

Taylor County Vo-Tech
Grafton, West Virginia
Rooftop replacement

Theodore Roosevelt Middle School
Williamsport, Pennsylvania
Renovations and additions

Titusville Area Schools
Titusville, Pennsylvania
Structural design, new construction

Troy Area School District
Troy, Pennsylvania
Feasibility study

Turkeyfoot Valley School District
Confluence, Pennsylvania
Jr./Sr. high school boiler replacement



Troy Area High School
Troy, Pennsylvania
Renovation and expansion

Tuscarora School District
Tuscarora, Pennsylvania
Feasibility study

Tussey Mountain School District
Saxton, Pennsylvania

- Field lighting
- Feasibility study

Tyrone High School
Tyrone, Pennsylvania
Boiler repairs

United Jr./Sr. High School
Armagh, Pennsylvania
Alterations and additions

United School District
Armagh, Pennsylvania
Sewage treatment renovations

University Park Elementary School
Johnstown, Pennsylvania
Renovations and addition

Warren County School District
Warren, Pennsylvania

- Boiler replacement at four schools
- Fire alarm system replacement
- Security camera system at 12 schools
- Gymnasium ventilation study
- Stage dimming panel replacement
- Library air conditioning
- Air conditioning study
- Air conditioning replacement
- Security camera



Windber Elementary School. The well field for the school's geothermal heat pump system is concealed beneath the tennis courts and parking area.

Waynesboro Area Middle School
Waynesboro, Pennsylvania
Electric service for modular classrooms

Weller Field Concession Building
Ligonier, Pennsylvania
Additions and renovation

Wellsboro Area School District
Wellsboro, Pennsylvania
Feasibility study and technology upgrade

Westmont Hilltop High School
Johnstown, Pennsylvania
Renovations and addition

Windber Area High School and Middle School
Windber, Pennsylvania
Addition and renovations

Windber Elementary School
Windber, Pennsylvania
New construction



FEASIBILITY STUDY FOR THE RENOVATION OF THE RADNOR MIDDLE SCHOOL

H.F. Lenz Company provided mechanical, electrical, plumbing, fire protection, and civil engineering services for a feasibility study for the renovation of the Radnor Middle School in Wayne, Pennsylvania.

Mechanical, Electrical, Plumbing, and Fire Protection Services

- Documentation of existing conditions of the mechanical, electrical, plumbing and fire protection systems and comparing those systems to standards for a new school.
- Identified upgrades to life safety and fire protection systems to comply with current codes and to minimize risk to property and to improve life safety for building occupants and the general public.
- Identified upgrades necessary to supply code required exhaust and outdoor air quantities as well as any needed improvements in filtration of air pressure relationships in order to improve productivity, reduce sick time, and prevent the recirculation of airborne pathogens
- Identified ways to reduce utility consumption (including water) by installing more modern electrical, plumbing and HVAC systems.
- Identified mechanical, electrical, and plumbing device and system upgrades required to accommodate the handicapped users within the building
- Established building standards for the Middle School that will address mechanical equipment, lighting, wire management, diffusers, automatic temperature controls, plumbing fixtures, electrical devices, etc.
- Identified modifications required to the mechanical, electrical, and plumbing systems even if architectural modifications are not made to the building
- Identified modifications required to the mechanical, electrical and plumbing systems to coordinate with any proposed architectural renovations within the existing facility
- Analyzed the feasibility of additions to the existing building and their impact on the mechanical, electrical, and plumbing systems
- Analyzed the feasibility of construction of new facilities

Civil Engineering Services

- Met with the Owner to establish program needs and requirements regarding stormwater management system and sanitary sewer problems
- Reviewed existing stormwater and sanitary sewer information
- Evaluated the site regarding the stormwater flooding conditions and determine if there are other solutions not mentioned in the previous studies
- Evaluate the existing sanitary sewer conditions and develop possible solutions for correcting back-up problems



Project Name and Location: Hazelton Area School District, Hazelton, Pennsylvania

Contact: Mr. Frank Victor, 570/459-3111 ext. 3101
1515 W. 23rd Street
Hazelton, PA 18202

Projects:

- *Feasibility study of 11 buildings*
- *Renovation of the historic Hazelton Castle*
- *Hazelton Harmon Geist Stadium renovations*
- *Hazelton Sports Fields - new sports lighting and field house*
- *Adaptive re-use study for former hospital to adapt for school district use*

Project Name and Location: Williamsport Area School District, Williamsport, Pennsylvania

Contact: Mr. Chuck Peterson, Phone: 570/327-5500
Williamsport Area School District
201 West Third Street
Williamsport, PA 17701

Projects:

- *Feasibility Study of 11 buildings*
- *Vo-Tech addition and auditorium upgrades for high school*
- *Cochran Elementary renovations*
- *Theodore Roosevelt Middle School renovations and additions*
- *Hepburn Lycoming Elementary additions and renovation including geothermal system*
- *Lycoming Valley Middle School HVAC upgrades*
- *Curtain Middle School boiler replacement*

Project Name and Location: Mifflin County School District, Lewistown, Pennsylvania

Contact: Mr. Dave Sutton, Phone: 717/242-0262
Mifflin County School District
201 8th Street - Highland Park
Lewistown, PA 17044

Projects:

- *Feasibility study of 15 buildings*
- *Renovations and additions to East Derry Elementary School*
- *New Lewistown Elementary School*
- *New chiller at Lewistown High School*
- *Science Room renovation at Lewistown High School*



Project Name and Location: Jersey Shore School District, Jersey Shore, Pennsylvania

Contact: Mr. Jerry Merrill, Phone: 570/398-5258
Jersey Shore Area School District
175 A & P Drive
Jersey Shore, PA 17740

Projects:

- *Feasibility study of 6 buildings*
- *Additions and alterations to High School – 295,000 sq.ft.*
- *Additions and alterations to Middle School- 135,110 sq.ft.*
- *Additions and alterations to Elementary School*

Project Name and Location: Ligonier Valley School District, Ligonier, Pennsylvania

Contact: Mr. Robert Losier, 724/238-5696
Ligonier Valley School District
Town Hall
120 East Main Street
Ligonier, PA 15658

Projects:

- *Feasibility study for 5 buildings*
- *Renovation of 75,900 sq.ft. high school and 34,100 sq.ft. addition*
- *Geothermal study and design*
- *Laurel Valley High School renovation*
- *Laurel Valley Elementary School HVAC upgrades and addition*
- *Marker Middle School renovations and additions*
- *R.K. Mellon Elementary School renovations and additions*