

EXPRESSIONS OF INTEREST

Buyer 32

RFQ No. DEFK 10013

Bid Opening Date: April 13, 2010

Bid Opening Time: 1:30 pm.

**STATE OF WEST VIRGINIA DEPARTMENT OF
ADMINISTRATION PURCHASING DIVISION**

**2019 Washington Street East
Charleston, West Virginia 25305**

And

**WEST VIRGINIA ARMY NATIONAL GUARD
Construction and Facilities Management Office**

For

ARCHITECTURAL / ENGINEERING SERVICES

To

**PARKERSBURG READINESS CENTER AND
FIELD MAINTENANCE SHOP**

Submission Date: April 13, 2010

RECEIVED

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WV PURCHASING
DIVISION

ZILKA AND ASSOCIATES, INC.

Architecture . Planning . Interior Design

COMMERCIAL

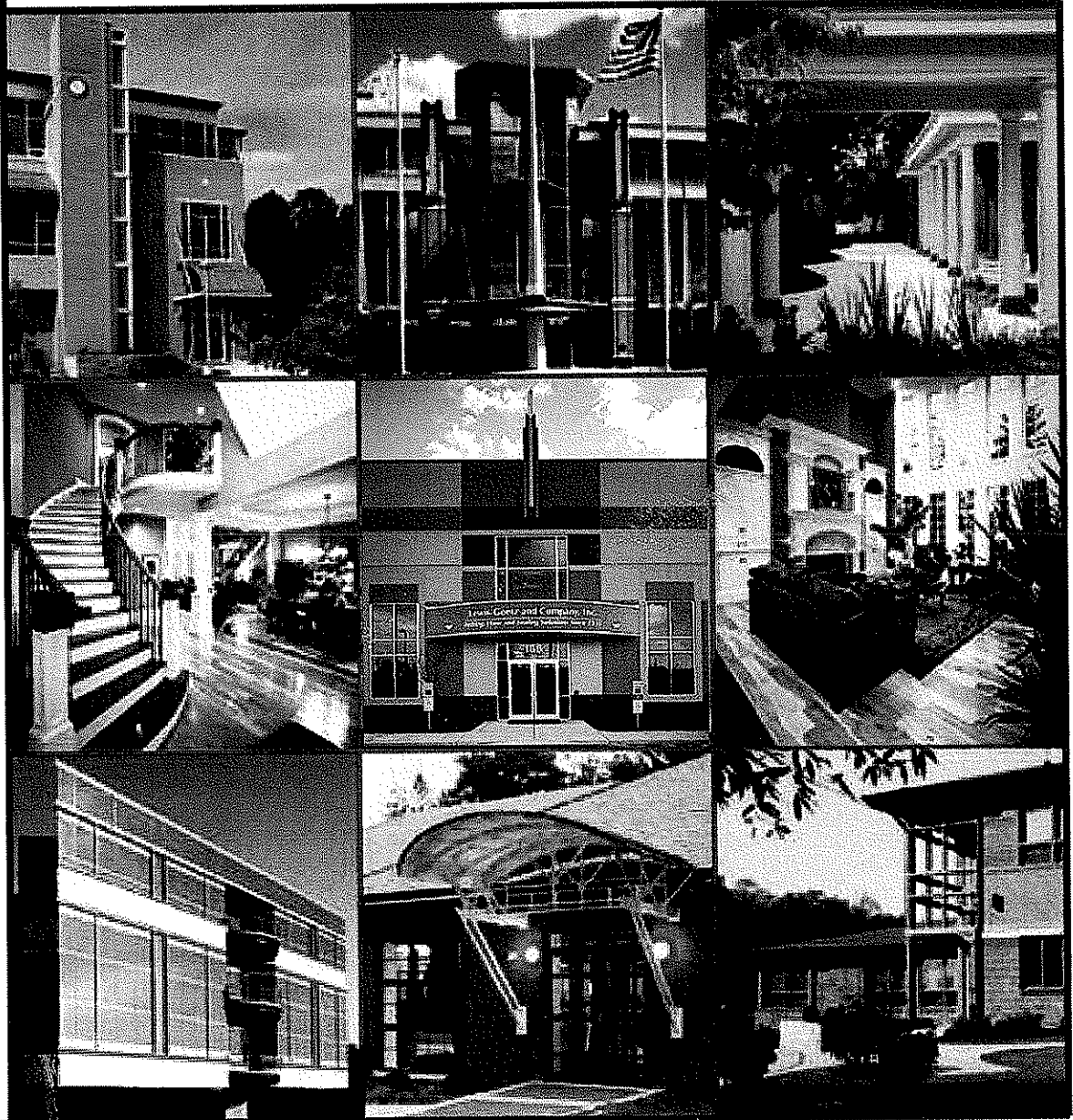
EDUCATIONAL

HEALTHCARE

INSTITUTIONAL

COMMUNITY

RESIDENTIAL



1305 Beech Street Cheswick Pennsylvania 15024

phone: 724.274.5990

fax: 412.291.1841

ZilkaAIA @ verizon.net

ZilkaAssociates.com

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SUBMITTAL INDEX:

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- **Project Team**
- **Zilka and Associates, Inc. Resumes**
- **Lovorn Engineering Associates Resumes**
- **R.A. Smith National Resumes**
- **The Watkins Partnership Resumes**
- **Allen & Shariff Engineering Resumes**
- **Specialty Consultants**
- **Organization Chart**
- **Client References**
- **WV Request for Quotation Page 1 (signed)**
- **WV Purchasing Affidavit Page 14(signed & notarized)**

ATTACHMENTS:

- **Zilka and Associates Marketing**
- **Lovorn Engineering Associates Marketing**
- **R.A. Smith National Marketing**
- **The Watkins Partnership Information**
- **Allen & Shariff Engineering Marketing**

Zilka and Associates Inc., their Associates and Consulting Engineers are pleased to express our interest and submit qualifications to be considered for Professional Architectural / Engineering Design Services for the proposed New West Virginia National Guard Readiness Center and Field Maintenance Shop located near Parkersburg, Wood County, West Virginia.

Per the State of West Virginia Department of Administration Purchasing Division request in the Request of Quotation, RFQ No. DEFK 10013 dated March 14, 2010, we provide the following response and marketing documentation. We have reviewed said RFQ Document and our proposed project team will agree to all special terms and conditions, we have attached signed Expression of Interest/Request for Quotation Document and signed and notarized the Purchasing Affidavit.

We are a full service Architectural, Planning and Interior Design Firm located in Cheswick Pennsylvania and practicing in multiple States. Since the Establishment of the Firm of Zilka and Associates, Inc. in 1996 Mr. Zilka and his firm have work on several Projects as the Architect of Record, worked closely with multiple Architectural and Engineering Firms on joint ventures or collaborating with other Design Professional providing our services and expertise as the Consulting Architectural Firm.

The Architect, his qualified Staff and Consultants have extensive knowledge and experience in the planning and design of numerous Building Types and Occupancies. Zilka and Associates, Inc. specializes in Corporate Office Buildings, Higher Education Facilities, HealthCare and Institutional Designs. We have also been involved with several Light Manufacturing, Production and Service / Maintenance Facilities through the years.

The Firm is currently involved with the Design of a 34,000 gross square feet Maintenance and Repair Facility for Stone and Company Concrete Supply in Greensburg, Pennsylvania to service their many Batch Plants and Concrete Production Facilities.

Our Project and Client Experience documents many Facilities that are or have like amenities that would commonly be found in an Army Readiness Center. Past Project Experience includes the designs of Assembly Halls, Auditoriums, Conference Centers, Classrooms, Training Facilities, Libraries, Learning Centers, Conference Areas, Dining Halls, Food Service Facilities, Public Gathering Spaces, Gymnasiums, Pools, Fitness / Weight Rooms, Locker / Shower / Toilet Facilities, Student Housing, Dormitories and Administrative Offices. We also have some past experience with the design of some Municipal Buildings, Police and Fire Department Designs.

All of the proposed Consultants of Our Project Team have extensive portfolio and experience with similar Client and Project types.

We truly thank you for the opportunity to be considered for this very important project for the State of West Virginia and the West Virginia National Guard. Zilka and Associates, Inc. and their proposed Project Team will complement the drive to bring this project to realization.

The Firm:

Zilka and Associates, Inc. is a client-focused full service Architectural, Planning and Interior Design Firm Practicing in multiple States established in 1996 by Perry Patrick A. Zilka its chief architect and president.

The Firm believes that strong client representation, teamwork and consistent communication result in the most effective designs. To bring the experience required to meet these objectives, the President of the firm actively participates in each project from conception through completion. This high level of personal involvement ensures that the standards of performance at Zilka and Associates, Inc. are met or exceeded, and that each phase of the project proceeds in an orderly manner to a timely completion within defined budget guidelines.

The professionals at Zilka and Associates, Inc. encompass a wide range of architectural and technical skills. Our clients will attest that our talented people are not only creative, but technically proficient as well. We are dedicated to complete client satisfaction, and our success is measured by our strong repeat clientele patronage.

The qualified Staff of Zilka and Associates, Inc. works enthusiastically as a Team, in order to expedite personalized quality service. Our mission is to provide the highest level of professional services to our clients by combining an understanding of their businesses with a creative approach to design and management. To pursue design excellence by seeking innovative solutions uniquely appropriate to the context, program, budget and user.

We demand the same professional standards of all Our Design Professional and Consulting Engineers. Zilka and Associates, Inc. have established a network for collaboration with other Independent Design Professionals and reputable Design Firms throughout our states of practice to share expertise, resources and can maintain adequate staffing, as the need arises. Our Project Team currently has more than adequate staffing to complete any proposed project or multiple projects.

Environmental Philosophy:

Zilka and Associates, Inc. and their Project Team are committed to being responsible to our community and environment, and the use of sustainable and green building technologies and construction. We explore opportunities to include environmentally conscious design and construction principles in each and every project. Strive to reduce the effect of our daily operation on the environment by conserving energy, and water, reducing our use of consumable products and recycle.

Technology:

Zilka and Associates, Inc. utilizes the latest Cadd, plotting and graphics technology which allows us to efficiently meet demanding deadlines. Technology enables us to continually exceed our clients' expectations by providing high quality marketing, design and construction documents. We use Autodesk Architectural Desktop Cadd software with the capability of 3-D modeling and renderings. However, we are still committed to the traditional artist rendered perspectives and sketches when desired.

Our Consulting Engineers utilize Autodesk Mechanical Desktop, Revit and AutoCadd Add-ons for ease of file sharing and coordination. We all utilize the standard practice of creating PDF viewable drawing files for distribution of progress submittals, bid documents and Construction Issue documentations.

The selected Project Team will be responsible for the Full Architectural / Engineering Services, Consisting of Programming, Design, Documentation, Bidding and Construction Administrative Services for the proposed new West Virginia Army National Guard Readiness Center and Field Maintenance Shop located in the vicinity of Parkersburg, West Virginia. Proposed facility to be designed consist of approximately 59,835 gross square feet for the Readiness Center and 23,484 gross square feet for the Field Maintenance Shop. Including Design and Documentation of, Site related improvements, storage areas, supporting facilities, landscaping, parking, access roads and drives.

The Architect and his Project Team will work closely with the West Virginia Purchasing Division, Committee Members and the West Virginia Army National Guard to gain an overall prospective of the statewide goals and objectives to be accomplished and arrive at an understanding of the common programming, planning and design concepts required for the designated facilities. If deemed applicable, we will follow the established Army National Guard Design Guide for Readiness Centers and Maintenance Facilities. Also follow all applicable Federal, State and Local codes and standards.

Zilka and Associates, Inc. and their Project Team will strive to design state-of-the-art facilities that will meet the needs of the Public, Military, Faculty and Administrative Staff. Designing aesthetically pleasing, an energy efficient and highly functional facility is always our goal.

Our Office is Located near Pittsburgh Pennsylvania which provides convenient access to be onsite within a few hours travel.

Zilka and Associates, Inc. is currently a registered vendor with the West Virginia Purchasing Division.

PROJECT TEAM:**ARCHITECTURAL FIRM:**

ZILKA AND ASSOCIATES, INC.
1305 Beech Street Cheswick, Pennsylvania 15024
www.ZilkaAssociates.com
Phone: (724) 274 – 5990 Fax: (412) 291 – 1841

Project Staff: Perry P. A. Zilka, AIA	Chief Architect / President
Paul Smith, RA	Senior Architect
Michael F. Federici, RA, LEED AP	Project Architect
Joseph Beerens, RA	Project Architect
Pamela Jo Kovach	Arch. Designer / Interiors / Cadd Mgr.
David A. Woody	Engineering Technician / Cadd

MECHANICAL HVAC / PLUMBING, ELECTRICAL & FIRE PROTECTION ENGINEERS:

LOVORN ENGINEERING ASSOCIATES, LLC
700 Blaw Avenue Suite 200 Pittsburgh, Pennsylvania 15238
www.LovornEngineering.com
Phone: (412) 423 – 2660 Fax: (412) 423 – 2661

Project Staff: David W. Crossey,	Vice President / Project Manager
Kenneth L. Lovorn, PE	President
Kathleen I. Conrad, PE	Mechanical Engineer
William Ruoizzi, PE	Senior Mechanical Engineer
Douglas Bruckner,	Senior Electrical Designer

SITE/CIVIL ENGINEERS:

R.A. SMITH NATIONAL, INC.
300 Corbet Street, Suite 200B Tarentum, Pennsylvania 15084
www.RASmithNational.com
Phone: (724) 224 – 2330 Fax: (724) 224 – 5254

Project Staff: John J. Frydrych, MS, PE	Senior Project Manager
Mark Michelini, PE	Senior Project Engineer
Christopher W. Hamm, PE	Project Manager

STRUCTURAL ENGINEER:

THE WATKINS PARTNERSHIP, INC.
3032 Mitchellville Road, Suite 202 Bowie, Maryland 20716
www.WatkinsPartnership.com
Phone: (304) 249 - 0974

Project Staff: Stephen M. Watkins, PE	Principal-in-Charge / President
Patrick M. McCormac, PE	Project Engineer

COMMISSIONING / LEED CONSULTANT

ALLEN & SHARIFF ENGINEERING
700 River Avenue, Suite 333 Pittsburgh, Pennsylvania 15212
www.AllenShariff.com
Phone: (412) 322-9293 Fax: (412) 322-9281

Project Staff: Glenn Johnson, CxA	Commissioning Department Head
Christopher DiCianna, PE, LEED AP	Associate Director

ZILKA AND ASSOCIATES, INC.

Perry Patrick A. Zilka, AIA
President / Chief Architect

Years Experience in Architecture

Mr. Zilka has over twenty-five (25) years of broad-based Architectural Experience.

Professional Profile

Firm President, Chief Architect, Registered Architect, Senior HealthCare / Educational / Corporate Project Manager, Senior HealthCare / Educational / Corporate Designer, Operations Director, Construction Administrator, Architectural Office Operations, Senior Specification Writer, Client Relations and Marketing. Over the years Mr. Zilka has accomplished a wide variety of work both as an individual practitioner and as a key member of large and small architectural firms. He is well versed in all aspects of a project and the architectural field with extensive knowledge and experience in all building types and excelling in Healthcare / Educational and Corporate office *building*.

- Division 00 and 01 Preparation
- Technical Specifications (MF2004)
- Programming/Design Development
- Quality Control/Assurance
- Construction Documents
- Project Bidding/Addenda Preparation
- Consultant Coordination
- Project Management
- Cadd and Construction Standards
- Construction Administration
- Facility Assessments
- Feasibility Studies
- ICC/Code Analyses
- Project Schedules and Budgets
- AIA Contracts/Forms
- Personnel and Staff Management
- LEED Certified Building Design
- Firm Marketing / RFP's / RFQ's

Education and Professional Expertise

Pittsburgh Technical Institute; Pittsburgh, Pennsylvania – 1983
Associates Degree in Specialized Technology - Architectural Engineering, Drafting & Design w/CADD

Active Registration

1995, Architect, District of Columbia, License No. 5983
1999, Architect, State of New York, License No. 027367
2000, Architect, State of Maryland, License No. 12318
2000, Architect, State of Arizona, License No. 34519
2001, Architect, State of West Virginia, License No. 3370
NCARB Council Record No. 85649

Professional Affiliations

American Institute of Architects (AIA)
International Code Council (ICC)
Green Building Alliance (GBA)
Construction Specifications Institute (CSI)
Allegheny Valley Chamber of Commerce

ZILKA AND ASSOCIATES, INC.

Paul Smith, RA
Senior Consulting Architect

Years Experience in Architecture

Mr. Smith has over thirty-eight (38) years of broad-based Architectural Experience.

Professional Profile

Over the years Paul has accomplished a wide variety of work both as an individual practitioner and as a member of a large architectural firm. As a Senior Associate with Burt Hill he acted as principal designer on many projects nationally and internationally. The past ten (10) years Paul has been focused on multiple High Rise Living, many with Retail and other Mixed-Uses, multiple other Shopping Centers and Retail Spaces. A Bank Processing Center. Earlier in his career he worked on various (K - 12) Kindergarten thru twelfth grade School Project and Higher Education Facility designs. Registered Architect, Senior Designer, Construction Administrator, Architectural Office Operations and Standards, Specification Writer, Client Relations and Marketing. He is well versed in all aspects of a project and the architectural field.

Education and Professional Expertise

Paul has no formal education as an Architect. His training was as an apprentice. After 13 years of training he qualified to take the Architects License Exam in 1985. He is a true Old School Architect.

Active Registration

1985, Architect, State of Pennsylvania

Cadd Technology

Autodesk AutoCadd Architectural Desktop
Micro-Station

Autodesk Revit & 3D Studio Max
Sketch-Up / Rhino 4 / V-Ray / In-Design

Information Technology

MS Excel
MS Windows XP Pro

MS Word
Power Point

MS Photoshop

Professional Affiliations

Green Building Alliance (GBA)

ZILKA AND ASSOCIATES, INC.

Michael L. Federici, RA, CSI, LEED®AP
Senior HealthCare/Educational Architect

Years Experience in Architecture

Mr. Federici has over twenty-seven (27) years of broad-based Architectural Experience.

Professional Profile

Registered Architect, Senior HealthCare/Educational Project Manager, Operations Director and Senior Technical Specifications Writer, with extensive experience in healthcare, educational and corporate project management, development and design; design/build project delivery; technical specifications; construction administration; architectural office operations; client relations; marketing.

Mr. Federici is the one of the Firms Leed Certified Design Professionals.

- Division 00 and 01 Preparation
- Technical Specifications (MF2004)
- Programming/Design Development
- Quality Control/Assurance
- Construction Documents
- Project Bidding/Addenda Preparation
- Consultant Coordination
- Project Management
- Construction Administration
- Facility Assessments
- Feasibility Studies
- IBC/Code Analyses
- Project Schedules and Budgets
- AIA Contracts/Forms
- Personnel and Staff Management
- LEED Certified Building Design

Education

The Pennsylvania State University, University Park, PA
Bachelor of Science (Architecture), May 1982

Information Technology

MS Excel
MS Power Point

MS Word
Master Spec

MS Photoshop
MS Windows XP Pro

Registrations/Affiliations

Registered Architect, State of Pennsylvania No. RA-011201-X
Leadership in Energy and Environmental Design (LEED) Accredited Professional
Member, Construction Specifications Institute (CSI) and Pittsburgh Chapter
Contract Documents Technologist (CDT) and Certified Construction Specifier (CCS)

ZILKA AND ASSOCIATES, INC.

Joseph C. Beerens, AIA
Senior Consulting Architect

Years Experience in Architecture

Mr. Beerens has over thirty-six (36) years of broad-based Architectural Experience.

Professional Profile

Joseph has worked for large Architectural Firms such as Burt Hill and IKM throughout his career. He has also been in practice on his own including working in India for one year. Mr. Beerens is seen in the architectural community as someone who can do it all and very direct in solving problems. He will have primary responsibility for project management, production and construction document oversight.

Over his career he has been involved in numerous Mixed-Use Commercial, Retail and Multi-Tenant Housing Developments, Commercial Shopping Centers, Condominium Projects, Restaurant Designs, University and Higher Education Projects including science buildings / labs and classrooms, HealthCare Facilities, Medical Offices and multiple Corporate Office Facilities. He was the Project Manager on a LEED platinum project Corporate Headquarters in India.

- Project Management
- Technical Specifications
- Programming/Design Development
- Quality Control/Assurance
- Construction Documents
- Project Bidding/Addenda Preparation
- Consultant Coordination
- Personnel and Staff Management
- Construction Administration
- Facility Assessments
- Feasibility Studies
- ICC/Code Analyses
- Project Schedules and Budgets
- AIA Contracts/Forms
- Architectural Office Operations
- Staff and Intern Mentoring

Education and Professional Expertise

Pennsylvania State University; State College, Pennsylvania 16801

5 year Bachelor of Architecture, 1974

4th year study abroad under Theodore Waddel, designer for Cassina | Florence, Italy

Active Registration

1980, Architect, State of Pennsylvania

Professional Affiliations

American Institute of Architects (AIA)
International Code Council (ICC)
Green Building Alliance (GBA)

ZILKA AND ASSOCIATES, INC.

Pamela Jo Kovach
Architectural Designer / Technology Manager

Years Experience in Architecture

Ms. Kovach has twenty five (25) plus years of experience; and is well versed in all phases of Architectural Project Production.

Professional Profile

She has worked on various projects ranging single family dwellings to complex school additions and renovations. Extensive project experience on Corporate Headquarters, numerous Tenant Layouts and Interior Architectural Projects. She also has experience in Civil Engineering Subdivisions, Roadway and Bridge Work.

Past and Present Positions and Responsibilities include Project Management, Job Captain, Interior Architecture, Creation of Office Cadd Standards, Master Planning, Interiors, Design, Space Planning, Marketing Documents, Construction Management, Architectural/Structural/Civil Cadd Drafting, Computer Generated Renderings. She also manages the Cadd and Technology systems for our Office.

Education and Professional Expertise

Bachelors of Science, Accounting, 2008
Point Park University, Pittsburgh, Pennsylvania 15222

Bachelors of Science, Computer Science, 1999
Point Park University, Pittsburgh, Pennsylvania 15222

Associates Degree in Specialized Technology – Architectural Engineering, 1981
Pennsylvania State University; State College, Pennsylvania 16801

Cadd Technology

Autodesk AutoCadd Architectural Desktop
Micro-Station

Autodesk Revit & 3D Studio Max
Sketch-Up

Information Technology

QuickBooks Pro
MS Windows XP Pro
C/C++

MS Excel
HTML
Visual Basic

MS Word
Unix/Linux
Power Point

MS Photoshop
Java

Professional Affiliations

Green Building Alliance (GBA)
American Institute of Certified Public Accountants
Pennsylvania Institute of Certified Public Accountants
Student Accounting Association, Point Park University

ZILKA AND ASSOCIATES, INC.

David A. Woody
Engineering Technician / Cadd Draftsperson

Years Experience in Architecture

Mr. Woody has over 22 years of broad-based Architectural, Engineering and Surveying Experience.

Professional Profile

He has worked on numerous projects including the design of the infrastructure of many multi-use Business Park Developments and the Site Developments of many Parcels the most prominent being the Southpointe Development, a 587 acre multi use park in Washington County Pennsylvania. He has also completed many other projects for private developers in Maryland and Pennsylvania.

Dave has works primarily on site engineering and road designs for large multi-use and residential developments. He has significant experience in the preparation and discernment of legal descriptions, right-of-way documents, surveys and subdivisions plans. He helps the Firm with Architectural Cadd Production and Conceptual Site Planning.

Past and Present Positions and Responsibilities include Job Captain, Site Master Planning, Site Design, Surveying, Creation of Office Site Cadd Standards, Presentation Documents, Architectural/Civil Cadd Drafting, Computer Generated Site Renderings.

Education and Professional Expertise

Pennsylvania State University; New Kensington Pennsylvania, 1987
Associates Degree in Specialized Technology – Site / Civil Engineering, Drafting & Design w/Cadd.



DAVID W. CROSSEY, CPD
VICE PRESIDENT
LOVORN ENGINEERING ASSOCIATES

PROFILE:

Mr. Crossey is responsible for the coordination of all designs, specifications, and construction supervision for our client's projects at Lovorn Engineering Associates. Dave has served as Project managing for many of the Universities within the region and is responsible for coordinating the electrical, HVAC, plumbing, fire protection, and structural portions of his projects. In addition to his experience as Project Manager he has also, served Plumbing/Fire Protection designer and is a leader in storm water management, medical gas systems, fire protection system design, and water supply systems. His management and coordination of individual disciplines ensures a successful project for our clients.

SELECTED EDUCATIONAL/ UNIVERSITY PROJECTS SERVED AS PROJECT MANAGER:

Pennsylvania State University - University Park, Pennsylvania

- Locker Room Renovations
- New Indoor Practice Facility
- Pattee/Paterno Library Additions and Alterations

University of Pittsburgh - Greensburg, Pennsylvania

- Common Facilities Building

University of Pittsburgh - Bradford, Pennsylvania

- Swartz Hall Renovation

University of Pittsburgh - Main Campus

- Lab Renovations 3433 Forbes Avenue
- Preliminary Design for the renovations to Hillman Library
- Genomics Laboratory Relocation
- Cathedral of Learning Renovations to B44
- RIDC Main Campus Computer Facility upgrades.

Carnegie Mellon University - Pittsburgh, Pennsylvania

- New University Center
- New Kitchen
- Utility Master Plan
- Wean Hall Lab Renovations
- Mandel Lab
- Putenveedu Lab



Lycoming College - Lycoming, Pennsylvania

- New Science Building

Edinboro University of Pennsylvania

- Lawrence Towers - HVAC replacement
- University Center Bookstore
- Centennial Hall Elevator Installation

Thiel College - Greenville, Pennsylvania

- Howard Miller Center Additions and Renovations

Slippery Rock University - Slippery Rock, Pennsylvania

- Various renovation projects
- Old Main Elevator Installation
- Rhodes Hall Health Services Center
- Bard Hall HVAC System
- Renovations to NTK Stadium Installation of new weight room.

Pattee Library, Pennsylvania State University - University Park, Pennsylvania

- East Wing Renovations

Chatham College - Pittsburgh, Pennsylvania

- Woodland Hall Renovations
- Utility Master Plan

California University of Pennsylvania - California, Pennsylvania

- Boiler Plant Modifications, Phase II
- Renovations to Herron Hall Recreation and Fitness Center

West Virginia University Medical Center - Morgantown, West Virginia

- Chiller Plant

Carnegie Library of Pittsburgh - Pittsburgh, Pennsylvania

- Renovations to Main and Branch Libraries with Associated Code Upgrades

EDUCATION & CERTIFICATIONS:

Certificate in Civil Engineering

Forbes Road East Area Vocational Tech

Factory Mutual Training Center - Sprinkler System Design

Factory Mutual Training Center - Special Hazards Design

Certified in Plumbing Engineering - 1984 - ASPE

Certified in Plumbing Design - 2009 - ASPE



KENNETH L. LOVORN, P.E.
President
LOVORN ENGINEERING ASSOCIATES, LLC

PROFILE:

Thirty-Two years of progressive design and engineering management experience with architect-engineers and consulting engineers designing electrical systems. With the opening of Lovorn Engineering Associates (LEA), we are emphasizing the thorough evaluation of alternative design approaches and how to achieve equivalent compliance with the applicable Codes and Standards, all with a critical eye toward maintaining the best value for the client's dollar.

Designs have ranged through:

- Single family residential.
- Multifamily garden and high-rise residential.
- Light industrial facilities from minor renovations to major new facilities.
- Office renovations from single office to complete tenant fit out of major office spaces.
- Office building designs both spread office complexes and high rise facilities with areas of up to 3,000,000 square feet.
- Institutional facilities including renovations and new facilities for hospitals, primary, secondary, and higher educational facilities.

In particular, a sample of the electrical designs for projects at colleges and universities include:

- Library and classroom building for Broward County Community College
- Laboratory renovations for University of Pittsburgh at 3343 Forbes Avenue.
- Library expansion at Howard University

- Library expansion at Penn State University
- Science building for Franciscan University in Steubenville, Ohio
- Athletic facility for Catholic University in Washington D.C.
- Athletic facility for Niagara University in Niagara Falls, New York
- University Center for CMU
- Relighting the WVU stadium
- Multiple renovations and distribution modifications at the Morgantown campus of WVU
- Daylit classroom building for Southeastern State College, Oklahoma
- Distribution study and preliminary design for Bloomsburg University, Bloomsburg, PA
- New University Center at Carnegie Mellon University.
- Howard Miller Center at Thiel College
- University of Pittsburgh Bradford - Swarts Hall Renovations

Articles

Waving Good-bye to Harmonics, *Consulting-Specifying Engineer*, Feb. '96

Holding to Electrical Specs, *Consulting-Specifying Engineer*, Oct, 1998

Working Drawings: Leading by Example, *Consulting-Specifying Engineer*, Feb. 2000

Protecting Power Quality, *Consulting-Specifying Engineer*, Jan. 2001

The Mysteries of Motor Control, *Consulting-Specifying Engineer*, April 2001

Other

Appointed as a Consulting Editor for *Consulting-Specifying Engineer* magazine, January, 2001.

Education

University of Oklahoma, Norman, Oklahoma
BSEE 1970

Registration

Registered Electrical Engineer in Pennsylvania, Maryland, New York, Oklahoma, Ohio, West Virginia, Michigan, and Virginia



KATHLEEN I. CONRAD, PE
Mechanical Engineer
LOVORN ENGINEERING ASSOCIATES, LLC

PROFILE:

Ms. Conrad is experienced in commercial, institutional and industrial HVAC and plumbing systems. As a Mechanical Engineer, she is responsible for the coordination of the mechanical systems and the selection of equipment, writing technical specifications, and supervision of the layout of HVAC and Plumbing systems for a wide range of projects.

EXPERIENCE:

Carnegie Mellon University, Pittsburgh

- Mandal Laboratory
- Puthenveedu Laboratory

Polk Center, Polk PA

- Demolish Deteriorated Structures

UPMC

- Scaife Hall - Simulated Exam Rooms
- Scaife Hall - 5th Floor Restroom Renovation

McKeesport Housing Authority, McKeesport

- Crawford Village

West Penn Hospital

- Gift Shop and Pharmacy Renovation

UPMC Passavant Hospital

- Pavilion Addition
- CT Relocate

McKeesport Hospital

- Operating Room Air Handling Unit Replacement

VA Medical Center, Butler, PA

- Congregate Bath & Corridor Upgrade
- Emergency Generator Upgrade
- Domiciliary
- Nursing Home

UPMC Shadyside Hospital

- PACU renovations
- Emergency Room Renovations

Cultural Arts Center, McKeesport, PA

- Renovation

Allegheny County Department of Aviation

- Fire Fighter Training Facility

Butler Area Sewer Authority, Butler, PA

- Grit Building Odor Control
- Locker Room Facility
- Sludge Holding Tank Odor Control

IBM, East Fishkill, NY

- Building 317
- Building 325

ARCO, Butte, MT

- Butte Mine Wastewater Treatment Facility

3M, Tonawanda, NY

- Central Boiler and Chiller Plant

Pittsburgh Board of Education

- Arsenal Elementary and Middle School Renovation

EDUCATION & PROFESSIONAL REGISTRATION:

B. S., in Mechanical Engineering, University of Pittsburgh, 1987.
A. S., in Physical Science, Butler County Community College, 1984.

Professional Engineer: Pennsylvania and West Virginia



WILLIAM RUOZZI, PE
Senior Mechanical Engineer
LOVORN ENGINEERING ASSOCIATES, LLC

PROFILE:

Bill has over 35 years of experience in commercial and institutional HVAC systems, boiler and chiller plant piping, lab ventilation systems and hospital clean rooms. As Senior Mechanical Engineer he is responsible for selection, specification and layout of HVAC and Plumbing systems for a wide range of projects.

EXPERIENCE:

West Penn Hospital - Forbes Regional Campus

- 5th Floor Growth and Expansion Project
- Angiography
- CT services Expansion

UPMC McKeesport Hospital

- Prescott Building Computer Room Air Conditioning Unit
- Crawford Building Third Floor HVAC Modifications
- Crawford Building Phone Room Air Conditioning Unit
- 3rd Floor ADA Patient Rooms

Alle Kiski Medical Center

- Shop Ventilation
- Operating Room

West Penn Hospital

- Post Partum Unit
- Uroscopy Table Installation

West Virginia University Hospital

- New 50,000 sq. ft. Laundry Facility
- Cheat Lake Clinic Addition

Cioppino's Restaurant

- New Restaurant in Pittsburgh, PA located in The Cork Factory

EDUCATION:

B. S., in Architectural Engineering, Penn State University, 1971



DOUGLAS BRUCKNER
Senior Electrical Designer
LOVORN ENGINEERING ASSOCIATES, LLC

PROFILE:

Mr. Bruckner has 30 years of experience in the industrial and commercial electrical sectors. His background includes work in the mining, metals, glass, food, and material handling industries. As Senior Electrical Designer, he is responsible for selection, specification and layout for a wide range of projects. In addition, some projects included the commissioning and start-up of electrical equipment and control systems.

EXPERIENCE:

Carnegie Mellon University

- Mandal Lab Project
- Puthenveedu Lab Project

Norfolk Southern - International Bulk Services

- Scully Yard Electrical Assessment/Upgrade Project

Sherwin Alumina Refinery

- Electrical Safety and Reliability Audit

UPMC - McKeesport

- Crawford Building ADA Rooms Project
- Crawford Building MDF & Computer Room Project
- Mansfield Building MDF Room Project

West Virginia University

- New Commercial Laundry Facility Project
- Data Center Upgrade Study

West Penn Hospital

- C-Wing Switchgear Replacement Project
- EMF Investigation/Mitigation Project

Allegheny Energy - Mitchell Power Station

- 330 MVA GSU Transformer Installation Project

United States Post Office

- Springfield BMC - Unloaders and Sorting System Conveyors
- St. Louis BMC - High Speed Universal Sorters (HSUS)
- Des Moines BMC - High Speed Universal Sorters and Conveyors

AK Steel

- Butler Plant - Ladle Refining Station Upgrade
- Butler Plant - Plant-Wide WWT Automation
- Coshocton Plant - Continuous Strip Anneal & Pickle Line
- Coshocton Plant - WWT Chrome Reduction Process System

ALCOA

- Tennessee Operations - Dual Spindle Scalper
- Davenport Operations - Litho Line, #3 EMC Caster & #4 DC Caster
- Warrick Operations - Rotary Stabilizing Furnace

Koppel Steel

- New Melt Shop w/ UHP Furnace, LMF and Continuous Caster

H J Heinz

- New Process Lines and Distribution Center

EDUCATION:

A. S., in Engineering Technology, CCAC, 1976



Education

M.S. Engineering Management, Point Park University, Pittsburgh, PA, 2003

B.S. Civil Engineering Technology, Point Park University, Pittsburgh, PA, 1991

Professional Registrations

Professional Engineer: Pennsylvania, Delaware, Maryland, New Jersey, Ohio, West Virginia

Certified Bridge Safety Inspector: Pennsylvania

Professional Affiliations

American Society of Civil Engineers
International Council of Shopping Centers
National Association of Industrial and Office Properties

Builders Association of Metropolitan Pittsburgh

Sustainable Pittsburgh

Murrysville Economic and Community Development Corporation - Board Member

Advisory Council for Civil Engineering Technology Program at Point Park University - Industrial Advisor

Student-Alumni Resource Network Mentoring Program at Point Park University - Resource

SUMMARY OF QUALIFICATIONS

John manages the Pittsburgh Office of R.A. Smith National, Inc. He has 18 years of broad-based civil engineering, municipal engineering, and land development design experience. John's professional experience includes a variety of civil engineering tasks involving numerous land development, stormwater management and hydrologic/hydraulic modeling, environmental, landfill, and municipal water system and sanitary sewerage projects. John also serves as an expert witness regarding land development claims.

John's land development experience includes commercial, residential, retail, industrial, and public works projects for both private and public sector clients.

John has expertise in engineering design in all aspects of land development, including infrastructure and utility design, site layout, hydraulic/hydrologic analyses, erosion and sedimentation control planning, and applicable regulatory permitting. John has been involved in numerous site feasibility studies to investigate zoning, pertinent ordinances, site access and circulation, transportation improvements, geotechnical investigations, waterway and topographic constraints, stormwater management, utility investigations, infrastructure improvements, and environmental considerations including wetland management.

Project hydraulic/hydrologic analyses have included stormwater management with detention/retention designs, stormwater runoff models, dam breach analyses, riverine routings, and work involved with Federal Emergency Management Agency (FEMA) hydraulic/hydrologic studies. Regulatory permitting for projects has included stream encroachments and enclosures, NPDES permitting, and Act 537 permitting related to sanitary sewerage issues.

John also served as Director of Engineering for the Municipality of Murrysville, Westmoreland County, Pennsylvania from 2000 through 2004.

MAJOR PROJECTS

Shopping Center / Commercial / Retail

John was the Project Manager overseeing the design, construction document preparation, and regulatory permitting for numerous residential, retail and commercial developments including major regional malls and facility expansions. These land development projects ranged in size from +/- 10 acres to in excess of 100 acres. The projects, located throughout Pennsylvania, Ohio, New York, and Georgia, included design and extension of offsite utilities, and onsite utility design and layout and the oversight of the design of comprehensive stormwater management plans.

- PNC Bank, multiple locations in western Pennsylvania
- Tractor Supply Company, multiple western Pennsylvania and West Virginia locations
- Oak Tree Place, Cranberry Township, Pennsylvania
- Lincoln Place, Hempfield Township, Pennsylvania

- Pittsburgh Mills, Frazer Township, Pennsylvania
- Arbor Place Mall and the Landing at Arbor Place, Douglasville, Georgia
- Polaris – A Regional Shopping Center, Columbus, Ohio
- FORE Systems Corporate Headquarters, Pittsburgh Pennsylvania
- Prime Outlets, Grove City, Pennsylvania
- Wal-Mart, Kaufmann's, K-Mart, Hecht's

Hotel / Restaurant

John was the Project Manager for site development activities on various restaurant and hotel chains. Work on these projects included grading plans, utility layouts, and stormwater management plans. Projects include:

- Homewood Suites, Southpointe II, Canonsburg, Pennsylvania
- Fairfield Inn, Williamsport, Pennsylvania
- SpringHill Suite by Marriott at Pittsburgh Mills, Frazer Township, Pennsylvania
- Hampton Inn & Suites at Chestnut Ridge & North Strabane, Pennsylvania
- Sonic Drive-In, Pittsburgh Mills
- Qdoba, Pittsburgh, Pennsylvania
- Dunkin Donuts, Murrysville, Pennsylvania
- Primanti Bros, Monroeville, Pennsylvania
- Arby's, Monroeville, Pennsylvania
- Chili's, Butler & Pittsburgh, Pennsylvania
- Hops, Douglasville, Georgia
- Krispy Kreme, Joplin, Missouri
- Marriott Hotel, Pittsburgh, Pennsylvania
- Motel 6, Cranberry Township, Pennsylvania
- Olive Garden, Pittsburgh Mills
- Red Robin, Pittsburgh Mills
- Smokey Bones, Pittsburgh Mills
- T.G.I. Friday's, Douglasville, Georgia
- Wendy's, White Oak, Pennsylvania

Health Care

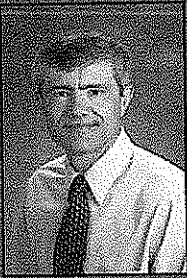
John served as an Assistant Project Manager for site development on various health care facilities for various clients. Work on these projects included site layout, site grading alternatives for the ±10-acre sites, utility layouts, stormwater management plans, erosion and sedimentation control plans, and preparation of sewage facilities planning modules for these facilities.

- Villa St. Joseph, a 120-bed skilled care facility, Baden, Pennsylvania
- Children's Hospital of Pittsburgh Satellite Center – North, Franklin Park, Pennsylvania
- Children's Hospital of Pittsburgh Satellite Center – South, South Hills, Pennsylvania
- Charles Cole Memorial Hospital Expansion Project, Coudersport, Pennsylvania

Municipal Engineering

As the Director of Engineering (4 years) for the Municipality of Murrysville, Westmoreland County, John was responsible for all engineering services within the municipality. The duties of this position were to:

- Prepare plans and specifications for the construction, rehabilitation, and general maintenance of all municipal roadways, properties, infrastructure and/or facilities.
- Plan, develop, and design, in cooperation with other appropriate municipal departments and commissions, parks and recreational facilities owned by the municipality.
- Review of all plans submitted for land development activities, minor and major subdivisions, and lot line consolidations.
- Develop, review and update policies that govern construction activities and environmental aspects within the municipality such as the creation and adoption of comprehensive erosion and sedimentation control and subsequent wetland protection ordinances. The municipal Act 537 Plan was also completely updated and contained an extensive on-lot system maintenance plan.
- Adapt to new federal stormwater management regulations, which require a National Pollutant Discharge Elimination System (NPDES) permit to discharge stormwater from Municipal Separate Storm Sewer Systems (MS4s). These MS4s include any separate storm sewer such as roads with drainage systems that include catch basins, curbs, gutters, ditches, manmade channels, or storm drains.

**Education**

M.S. Civil Engineering, University of Pittsburgh, 1994

B.S. Mining Engineering, Pennsylvania State University, 1979

Professional Registration

Professional Engineer, Pennsylvania

Professional Affiliations

American Society of Civil Engineers

SUMMARY OF QUALIFICATIONS

Mark has 15 years of civil engineering experience, as well as ten years of mining engineering experience. His experience includes site development, stormwater management, erosion and sedimentation control planning, municipal utility relocation, and surface mining projects. He has been involved in the development of numerous aspects of projects including hydraulic/hydrologic analyses, grading analyses, erosion and sedimentation control plans, and slope stability analyses.

MAJOR PROJECTS***Shopping Center / Commercial / Retail***

Senior Project Engineer responsible for the design and land development permitting process of major shopping center sites. Responsible for the design of complex stormwater management systems, erosion and sedimentation control planning and permitting. The stormwater management systems incorporated water quality BMP's to meet the updated NPDES requirements. Engineering oversight included grading and utility design and coordination with the project architects.

- **McCandless Crossing, McCandless Township, Pennsylvania**
- **Wal-Mart/Sam's Club, Frazer Township, Pennsylvania: 45 acres**
- **Southaven Towne Center, Southaven, Mississippi: 100-acre lifestyle center.**
- **Lowe's Home Improvement Centers, Pennsylvania, Ohio, and West Virginia**
- **Buckhorn Plaza, Bloomsburg, Pennsylvania: 75-acre power center.**
- **Polaris Towne Centre, Columbus, Ohio: Project manager for 90-acre power center. Prepared and reviewed complete construction drawings including grading, utility, and stormwater management plans.**
- **Polaris Fashion Place, Columbus, Ohio: Project manager for the development of a 100-acre regional shopping center. Work included site grading, utility design, and construction coordination. In addition, a detailed hydrologic analysis was performed for the design of the on-site stormwater management system and control facilities. Stormwater ponds were designed utilizing forebays and shelves to provide bio-remediation of stormwater runoff.**
- **Arbor Place Mall, Douglasville, Georgia: Project engineer for a 100-acre site development. A comprehensive hydraulic/hydrologic analysis for a 1,500-acre watershed draining to the site was performed, including the design of a stormwater management pond required to match the release rates of an existing impoundment removed for the mall construction. Work also included the design of the erosion and sedimentation control plan, the onsite stormwater management system and concrete energy dissipaters for the pond outlet structures.**
- **FORE Systems Corporate Headquarters, Pittsburgh, Pennsylvania: Engineer for the 95-acre site development of a new computer corporation. Work included slope stability analyses and erosion and sedimentation control planning.**

Hydrologic/Hydraulic Engineering Analyses

Horn Lake Creek, Southaven, Mississippi: Project manager for a hydraulic analysis of a portion of the creek. Work included a backwater analysis and relief channel design for a FEMA map revision.

Two Mile Run, Franklin, Pennsylvania: Project engineer for a hydrologic/hydraulic analysis. Digital Elevation Models were incorporated for the watershed delineation and to determine peak flows. A hydraulic study was also performed to determine the effect on flooding due to the construction of a concrete retaining wall.

Miscellaneous Hydrologic/Hydraulic Engineering Projects

- Performed hydrologic and statistical analyses of a 200-acre watershed to determine expected amount of monthly runoff for a proposed golf course project in eastern Ohio.
- Performed an investigation for an insurance claim of runoff damage due to construction work in Latrobe, Pennsylvania. The work included a site visit and hydrologic analysis to determine the most probable cause of the excess runoff.
- Provided expert witness testimony for an insurance claim involving stormwater runoff due to the construction of a four car garage. Preparation for the testimony included obtaining a detailed topographic survey, gathering soil samples, and developing a comprehensive stormwater runoff model comparing pre- and post-development runoff amounts and flow characteristics.

Stormwater

Stormwater Analysis, Bethel Park, Pennsylvania: Designed a cost effective design to reduce flooding along a small watershed, developed construction documents, and assisted in the bidding of the construction work.

Culvert Replacement, Beaver County, Pennsylvania: Project manager for culvert replacement project. Obtained Erosion and Sedimentation Control Permit and Highway Occupancy Permit.

Industrial Sites

- Project manager for 12-acre industrial site that included office and warehouse buildings. The scope of work included grading, utility design, erosion and sedimentation control permitting, and railroad design.

- Prepared an erosion and sedimentation control plan and NPDES permit for a 16-acre industrial site in Leetsdale Borough, Pennsylvania.

Environmental Projects

- Provided design work for a stream relocation project in Pittsburgh, Pennsylvania. The project included the implementation of natural stream channel design for the relocation of approximately 1100 feet of existing stream.
- Project manager for permitting of a stream channel restoration project in Franklin, Pennsylvania. The work included implementing natural features combined with engineered structures to restore the channel to a stable condition.
- Performed design work for approximately 2200 feet of stream relocation in Southaven, Mississippi.

Roadway Projects

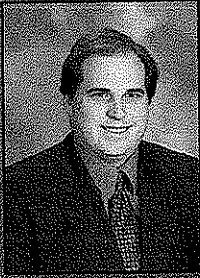
- Project engineer for a roadway widening and median modification project at Georgesville Road in Columbus, Ohio.
- Project engineer for the design of a 2,100-foot roadway extension in Columbus, Ohio.
- Performed 3-D modeling and renderings for site development projects and landfills to aid in permitting of sensitive sites. The models were developed in AutoCad and superimposed onto photographs to portray the proposed development.

Utilities

- Engineer for the design of underground utility relocations for a \$15 million Central Artery project in Boston, Massachusetts. Responsibilities included utility layout, coordination of various design aspects with the utility owners, and construction cost estimation.

Mining

- Engineer for the design of mine refuse impoundments for mining projects in eastern Kentucky. Site work included embankment design and slope stability analyses.
- Mine supervisor responsible for production and reclamation in a surface coal mine. Supervised exploration drilling, production drilling, and blasting, along with restoration and seeding of mine sites. Oversaw the construction of drainage control structures. Responsible for initial field investigations for new mine sites and site assessment for reclamation of abandoned mine sites.



Education

B.S. Civil Engineering Technology, University of Pittsburgh-Johnstown, 2001

Professional Registration

Professional Engineer-Pennsylvania (PE-060435-E)

Professional Affiliations

American Society of Civil Engineers
American Society of Highway Engineers
American Council of Engineering Companies
Industrial Advisory Board-University of Pittsburgh at Johnstown

SUMMARY OF QUALIFICATIONS

Chris has more than ten years experience in the civil engineering field including conceptual site planning, land development site design, stormwater management, wetland delineation, hydraulic and hydrologic analysis, infrastructure and utility design, construction monitoring, erosion and sedimentation control planning, regulatory permitting, project management, and land surveying.

Chris has been involved in numerous site feasibility studies to investigate zoning, ordinances, site access and circulation, transportation improvements, geotechnical investigations, waterway and topographic constraints, stormwater management, utility investigations, infrastructure improvements, and environmental considerations including wetland management.

Project hydraulic/hydrologic analyses have included stormwater management with detention/retention designs, stormwater runoff models, and work involved with Federal Emergency Management Agency (FEMA) hydraulic/hydrologic studies. Regulatory permitting for projects has included stream encroachments and enclosures, NPDES permitting, Flood Map Revisions and Act 537 permitting related to sanitary sewerage issues.

MAJOR PROJECTS

Institutions

Pittsburgh Public Schools, Pittsburgh Pennsylvania: Project Manager overseeing the design, construction document preparation, and regulatory permitting. Project included site grading analyses, design and onsite utility design and layout. Responsibilities also included the preparation of technical specifications for site development and the oversight of the design of comprehensive stormwater management plans including stormwater treatment. Regulatory approvals included erosion and sedimentation control, PWSA tap in approval.

- Arlington Elementary School Parking Lot Expansion,
- Langley Elementary School Parking Lot Expansion
- West Side Acedemy Demolition
- **Franklin Regional School District, Murrysville, Pennsylvania:** Project Manager overseeing the design, construction document preparation, and regulatory permitting for multiple projects within the School District including the following:
 - Sloan Elementary baseball field rehabilitation: included grading of the site, irrigation systems, and drainage.
 - Tennis court and soft ball field rehabilitation: included grading of the site, irrigation systems, drainage, subbase repair and storage buildings.
 - Concrete sidewalk installation
 - Play ground rehabilitation and installation
 - Sound panel installation

Health Care

Lancia Villa Royale, Steubenville, Ohio: Project Manager overseeing the design, construction document preparation, and regulatory permitting for this nursing home. Project included site grading analyses, design, and onsite utility design and layout. Regulatory approvals included erosion and sedimentation control.

Retail / Restaurant

Project Manager for site development on various franchises. Work on these projects included site layout, site grading alternatives for the approximate 1-acre sites, utility layouts, stormwater management plans, erosion and sedimentation control plans, and the preparation of technical specifications for site development. Projects include:

- Bruster's Ice Cream, Various Pennsylvania, Ohio, and New Hampshire Locations
- Dollar General, Masontown, Pennsylvania
- McDonald's, Burgettstown, Pennsylvania
- Petrucci's IGA, Burgettstown, Pennsylvania
- Dunkin' Donuts, Hermitage, Pennsylvania
- Fifth Third Bank, Murrysville, Pennsylvania

Residential

Cozza Plan of Lots, Collier Township: Project Manager overseeing the design and engineering services for the development of this 40-acre site. Site work and civil engineering services included minor roadway design, sanitary sewer and storm water systems, erosion and sedimentation control, stormwater management. Regulatory approvals included erosion and sedimentation control, PADEP Sanitary Sewer Modules, and PennDOT Highway Occupancy Permits.

Windsor Woods, Phase 4, Cecil Township: Project Manager overseeing the preliminary design and engineering services for Phase 4 of this 300-lot subdivision. Site work and civil engineering services included roadway design, site grading, and preliminary lot layout.

Shopping Center / Commercial / Retail

Chris was the Project Manager or a member of the design team overseeing the design, construction document preparation, and regulatory permitting for numerous residential, retail and commercial developments. These projects, located in Pennsylvania and Ohio, included site grading analyses, design and extension of offsite utilities, and onsite utility design and layout. Responsibilities also included the preparation of technical specifications for site development and the oversight of the design of comprehensive stormwater management plans. Regulatory approvals included wetland mitigation, erosion and sedimentation control, FEMA hydraulic/hydrologic studies, and NPDES permitting through the governing state agencies.

Bruster's Ice Cream, Various Pennsylvania, Ohio, and New Hampshire Locations

- Walnut Hollow, Murrysville, Pennsylvania
- Centre Plaza, Pittsburgh, Pennsylvania
- Cars & More, Murrysville, Pennsylvania
- Union Cemetery Expansion, Center Township, Pennsylvania
- Berardi Self Storage Units, Penn Township, Pennsylvania

Municipal

Housing Authority of the City of Pittsburgh, Pittsburgh, Pennsylvania: Project Manager overseeing the design, construction document preparation, and regulatory permitting for multiple projects within the HACP. The projects included site assessment of existing conditions to ensure that the site was UFAS and HUD compliant and safe. Development of plans for site upgrades including new sidewalks, ramps, stairs, lawn repair, and various other items.

Midland Pool Rehabilitation, Midland, Pennsylvania: Project Manager overseeing the design and construction document preparation for this Community Development Block Grant Project. The project included sidewalk repair, bath house upgrades, new pump installation, and alarm installation.

VA Aspinwall Water Tank Repainting, Aspinwall, Pennsylvania: Project Engineer responsible for the design and construction documents preparation for this 152 ft water tank. This project included repainting of the tank (both interior and exterior), new cathode protection, and the installation of new safety rails on top of the tank.

R.A. Smith National

*Beyond Surveying
and Engineering*

7. Brief resume of key persons, specialists, and individual consultants anticipated for this project

a. Name & Title:

Stephen M. Watkins, P.E.
President
 Steve@WatkinsPartnership.com

b. Project Assignment:

Principle in Charge

c. Name of Firm with which associated:

The Watkins Partnership, Inc.

d. Years experience: With This Firm 22.0 With Other Firms 6.0

e. Education: Degree(s) / Year / Specialization

BSC E/1977/Civil Engineering

f. Active Registration: Year First Registered / Discipline

Maryland/1982/Civil Engineering
Virginia/1984/Civil Engineering

g. Other Experience and Qualifications relevant to the proposed project:

Mr. Watkins, President, as a structural engineer, supervises the preparation and design of documents for projects as well as performing field observations for those projects. Mr. Watkins is familiar with all the usual building materials and with regional, local and federal code requirements. Typical projects include schools, hospital additions, nursing homes, bridges, auditoriums, parking garages, office buildings, hotels, maintenance facilities stores and other miscellaneous structures.

Examples of projects which he has designed and directed, are:

Ridge Elementary School Classroom and Gym Addition, One story masonry bearing with stl. bar jst. for the roof and a concrete slab on grade. The foundation is concrete spread figs. Approximately 5,500 sq. ft. for St. Mary's County Board of Education

Oakville Elementary School Addition, One story masonry bearing with stl. bar jst. for the roof and a concrete slab on grade. The foundation is concrete spread figs. Approximately 3,500 sq. ft. for St. Mary's County Board of Education

UNIVERSITY OF MARYLAND EASTERN SHORE

ACADEMIC/EXTENSION CENTER: consists of two parts varying in size from a three-story 11,600 sq. ft. per floor section and a 50,000 sq. ft. conference center and classroom section. The construction is steel frame with masonry veneer with steel truss and compression/tension using roof framing and composite beam floor framing.

LYLA C. SCHWARTZ BUILDING - Anne Arundel

Community College - This two story, 13,000 sq. ft. fourteen room classroom building for Anne Arundel Community College to expand classroom capacity. The building includes general purpose classroom and faculty office areas. Several classrooms were designed for computer science labs and mechanical systems were upgraded to accommodate the addition heat loads from computer equipment. The building structure was a combination of steel and masonry bearing concrete block. The exterior finishes included brick and an accent split-face block. Overall the new building successfully blends into the campus yet maintains its own identity.

CHARLES COUNTY COMMUNITY COLLEGE CENTER

FOR BUSINESS AND INDUSTRY: Approximately 45,000 square feet addition to existing Student Activity Center. Construction is steel frame and masonry load bearing walls. The structure is two stories with basement. The foundation is concrete spread footings.

WESLEYAN COLLEGE, BUCKHANNON, WEST

VIRGINIA FOOD SERVICE FACILITY: Approximately 25,000 square feet, steel framed building. The foundation was on a combination of concrete spread footings and pile foundation. The new building include a full commerical kitchen for the dining hall. The kitchen was masonry bearing walls and steel framing with steel bar joist and beams. The roof was metal deck.

7. Brief resume of key persons, specialists, and individual consultants anticipated for this project

<p>a. Name & Title: Patrick M. McCormac, P.E. Project Engineer Patrick@WatkinsPartnership.com</p>	<p>AA. CO. CENTRAL SANITATION FACILITY COMPLEX, MILLERSVILLE MARYLAND: This project consists of 5 buildings including a new administration building, warehouse and support buildings. The office building is a two story building with a total square footage of approximately 41,000 sq. ft. The building is a steel framed building with steel beam and concrete composite floor. The roof framing is bar joists. The approximate cost of construction is \$16 million.</p> <p>CHARLES COUNTY COURTHOUSE EXPANSION, LAPLATA, MARYLAND: The 152,000 sq. ft. expansion of the existing courthouse. The new construction will consist of new court rooms, offices and storage facility. The lower level will be for parking. The first floor will be for county offices. The upper level will be court rooms. The construction will be steel framed with masonry walls and concrete floors. The approximate cost of construction is \$15 million.</p> <p>MONTGOMERY COUNTY COMMUNICATION AND MAINTENANCE FACILITY, ROCKVILLE, MARYLAND: This project is a 17,000 sq. ft. one story office building and radio repair garage facility. The building construction is bar joist roof and masonry bearing walls. The approximate cost of construction is \$2 million.</p> <p>HILTON GARDEN INN, ANNAPOLIS, MARYLAND: This project is a 71,000 sq. ft. four story wood framed hotel and pavilion. The building construction is open web wood floor joists with gyprocrete topping and wood roof trusses. The approximate cost of construction is \$7 million.</p> <p>COMMERCE PARK MEDICAL OFFICE BUILDING, GETTYSBURG, PENNSYLVANIA: This project is a 65,000 sq. ft. two story building with a steel bar joist roof and precast hollow plank on steel beam floor system and precast concrete exterior walls. The approximate cost of construction is \$8 million.</p> <p>WASHINGTON ROAD MEDICAL OFFICE BUILDING, WESTMINSTER, MARYLAND: This project is a 80,000 sq. ft. two story building with a steel bar joist roof and precast hollow plank on steel beam floor system and precast concrete exterior walls. The approximate cost of construction is \$9 million.</p> <p>WOODWARD ESTATE ASSISTED LIVING FACILITY, BOWIE, MARYLAND: This project is a 68,000 sq. ft. two story building with preengineered wood roof trusses, wood floor trusses and wood exterior walls. The approximate cost of construction is \$7 million.</p> <p>LARKIN CHASE NURSING HOME, BOWIE, MARYLAND: This project is a 25,000 sq. ft. one story building with a steel bar joist roof and masonry bearing walls. The approximate cost of construction is \$2 million.</p> <p>ANNAPOLIS CONVALESCENT CENTER ADDITION, ANNAPOLIS, MARYLAND: This project is a 20,000 sq. ft. one story building with wood timber trusses on masonry bearing walls. The approximate cost of construction is \$.5 million.</p>
<p>b. Project Assignment: Structural Engineer Principal in Charge</p>	<p>The Watkins Partnership, Inc.</p>
<p>c. Name of Firm with which associated:</p>	<p>The Watkins Partnership, Inc.</p>
<p>d. Years experience: With This Firm <u>4</u> With Other Firms <u>12.0</u></p>	<p>With Other Firms <u>12.0</u></p>
<p>e. Education: Degree(s) / Year / Specialization B.A. University of Maryland Baltimore County/1993</p>	<p>With Other Firms <u>12.0</u></p>
<p>f. Active Registration: Year First Registered / Discipline Maryland/2005/Professional Engineer District of Columbia/2005/Professional Engineer (Structural)</p>	<p>With Other Firms <u>12.0</u></p>
<p>g. Other Experience and Qualifications relevant to the proposed project: Mr. McCormac, Project Engineer as a structural engineer, supervises the preparation and design of documents for projects as well s performing field observations for those projects. Mr. McCormac is familiar with all the usual building materials and with regional, local and federal code requirements. Projects include office buildings, retail centers, government maintenance facilities, nursing homes, hotels and other miscellaneous structures.. Examples of projects which he has designed and directed, are:</p>	<p>With Other Firms <u>12.0</u></p>

Glenn Johnson CxA

Construction Phase Services/Commissioning Department Head

Assignment: *Commissioning Authority*

Education

1983 / University of Maryland 1983 / Montgomery College
1984-1988 IBEW 4-year Electrical Apprenticeship
1990 Motor/Controls Certificate IBEW (Jatc)
1990-1994/R.E.T.S. Technical Institute / 2-Year HVACR Program / Diploma

Professional Registrations

Certified Commissioning Authority by ACG (AABC Commissioning Group)
Registration #407-210

Years with Firm: 2
Years with Other Firms: 23

Professional Experience

Glenn Johnson brings over 23 years of experience in the engineering and construction industry. He has been involved as a lead field service technician, senior field engineer, field engineering department manager, commissioning agent/authority, electrical design engineer and senior project manager. He has an extensive knowledge of HVAC, plumbing, electrical and plumbing systems for a variety of project types/sizes and he has provided commissioning consulting engineering, technical and project management services for a diverse group of projects including telecommunications centers, data centers, web hosting sites and other mission-critical, institutional and corporate office facilities. As the head of our **Construction Phase Services/Commissioning Department**, Mr. Johnson is responsible for performing and managing the commissioning, construction inspections, surveys, studies, construction phase services as well as providing technical support for the design departments. He conducts MEP troubleshooting and commissioning activities not only for our in-house projects but also for our client base. Mr. Johnson is thoroughly familiar with the National Electric Code, BOCA/International Building/Mechanical Code, NFPA, local codes/amendments and industry standard construction practices.

As a Project Manager (PM), Mr. Johnson is responsible for the overall management of assigned projects. PM responsibilities include contracts administration, staffing management, budget analysis and client maintenance. As a Commissioning Authority, Mr. Johnson prepares commissioning plans to document that specified components and systems have been installed and started up properly, and then functionally tested to verify proper operation through all modes and conditions. In addition, the commissioning plans include requirements for owner-personnel training and the submission of final project operations and maintenance (O&M) documents. Experience as follows:

Professional Affiliations: International Brotherhood of Electrical Workers

Certifications: Universal Refrigerant and Recovery Technician - May 1994 from Ferris State University.
Electrical Motor Controls - May 1990 from International Brotherhood of Electrical Workers JATC

Century 270 Office Building/Parking Garage - Germantown, MD

LEED MEP Engineering and Pre-Requisite Commissioning for the Century 270 building. This 8-story office complex linked with an on-site, 180,000 SF multi-level open parking garage for 600 cars has 276,000 SF of office and retail space for the first phase. The project is being designed to meet LEED Silver certification.

Maple Lawn Midtown Medical - Howard Co., MD

LEED, Pre-requisite & Enhanced Commissioning Services for new two story shell medical office building of approximately 68,000 SF. Facilities program to house multiple physicians' practices of varying sizes. Also provided LEED Energy Modeling Services. The base building mechanical system includes gas fired rooftop unit and air distribution system to serve common areas only. Shell tenant spaces will be fit-out with gas furnace split systems as part of the tenants design and fit-out.

Medical Pavilion @ Howard Co. General Hospital - Columbia, MD

LEED, Pre-requisite & Enhanced Commissioning Services for a new five (5) story medical office building of 165,000 SF located on the Campus of Howard County General Hospital. Goal is to achieve LEED NC certification and requires Prerequisite/Fundamental commissioning services as well as Enhanced commissioning services.

Takoma Park Square 3357 - Takoma Park, MD

Commissioning Authority - MEP engineering services, LEED design, Pre-requisite Commissioning & Energy Modeling services for a two three-story residential buildings consisting of 8-10 unit types with 38 units per building.

Prince George's Community College - Career & Technology Building

Electrical CA/Cx services - MEP, Security Design and HVAC/Electrical Commissioning for the construction of a new three-story high technology building totaling approximately 77,468 SF. Design of this signature building includes space for general computer, network administration and geographic information systems "smart" classrooms, graphics/graphic art multi-media rooms and other state of art program spaces. Cost \$21 Million.

Christopher J. DiCianna, P.E., LEED® AP

Associate Director

Assignment: *Senior Mechanical Engineer/PM*

Education

1986/B.S. Mechanical Engineering - University of Pittsburgh
1987-1990/Marine Engineering Studies - Naval Sea Systems Command Inst.
1989-1992/Engineering Masters Program - Catholic University of America

Professional Engineering Registrations

1992/Virginia # 0402023989 - Mechanical. LEED Accredited Professional
Other registrations include: PA, VA, TX, TN, MD, NY, KS, MA, MO, NJ

Years with Firm: 2
Years with Other Firms: 20

Professional Experience

Mr. DiCianna is a registered professional with considerable experience and highly developed skills in project budgeting, scheduling, project and team management. He is responsible for overseeing all projects from initial design through field supervision to assure total quality management and successful project delivery. Mr. DiCianna participates in design and operational planning and is ultimately involved with new and innovative designs for engineering systems. Additionally, Mr. DiCianna is a LEED Accredited Professional who continually demonstrates a commitment to sustainable engineering design. Professional Affiliations: American Society of Heating Refrigeration and Air Conditioning Engineers (ASHRAE)

Grove City College (Carnegie Alumni Center) - Grove City, PA

Mechanical Engineer - MEP Engineering design for the construction of the new Carnegie Alumni Center that includes better welcoming reception space and more offices. The \$6.7M project consists of a 6,200 SF addition and renovation to the existing 12,600 SF building. Due to the renovations, the ground level becomes home to the College Communications Office, a staging kitchen, archival storage area, conference room and mechanical equipment. The main level features a multi-purpose reception area and dining space for 120 people with access to an outdoor terrace. A casual seating area with a fireplace accommodates smaller groups. The third level houses the remainder of the Institutional Advancement Office - Alumni Relations and Development - in a combination of enclosed offices and partitioned work stations.

University of Pittsburgh - Titusville Chiller

MEP engineering services for a project for the development of design and construction documents for a chilled water system to air condition the Student Union Building utilizing the existing equipment and accessories.

Dicks Sporting Goods World Headquarters - Findlay TWP, PA

Mechanical Engineer - Complete MEP & IT design for a \$125 Million, 660,000 SF new construction project. LEED project. Design included detailed energy analysis and tradeoff studies of various types of HVAC equipment and systems to provide the lowest life cycle cost and to meet LEED requirements for the project. The building serves as the international headquarters for Dick's Sporting goods and contains auditoriums, kitchen and cafes, fitness center, complete athletic facility with basketball court, office/break rooms and airstrip and hangar for corporate jet. The mechanical systems consist of a central chilled water plant with central hot water generation for heating. The air distribution is via an underfloor air distribution system in 80% of the spaces.

Northside Branch Library - Pittsburgh, PA

Mechanical Engineer - MEP and IT design services and LEED modeling for this new one-story, 12,000 SF library that is ADA compliant. The Carnegie Library is building the new Northside Branch after lightning struck the historic structure's clock tower in April, 2006.

Westmoreland County Community College Emergency Training Center

Served as project mechanical engineer and Engineer of Record on Training Center used to train firefighters and emergency personnel in Westmoreland County, PA. Facility consisted of vehicle maintenance and storage area, fire-fighting training tower and burn building.

Additional University Experience:

Penn State University:

- ARL Generator Test Facility - designed fuel delivery system for generator test stand.
- ARL Hood Exhaust System

University of Pittsburgh

- Benedum Bio-Instrumentation Lab - design of specialized test lab
- Cathedral of Learning HVAC & Electrical Upgrade - provided new HVAC system to existing 75-year old high-rise
- Sennot Square Multi Purpose Academic Complex
- Thaw Hall, 3rd & 4th Floor Renovations

SPECIALTY CONSULTANTS:

FOOD SERVICE DESIGN CONSULTANT:

TRI MARK SS KEMP

590 Vista Park Drive Pittsburgh, Pennsylvania 15205

www.SSKemp.com

Phone: (412) 787-6839

Fax: (412) 494-0234

Contact: John Zanker

Design & Sales Associate

AUDIOVISUAL SYSTEMS /SECURITY /DATA TECHNOLOGY CONSULTANT:

ALLEN & SHARIFF ENGINEERING

700 River Avenue, Suite 333 Pittsburgh, Pennsylvania 15212

www.AllenShariff.com

Phone: (412) 322-9293

Fax: (412) 322-9281

Contact:

SPECIALTY FURNITURE DESIGN CONSULTANT:

EASLEY & RIVERS, INC.

207 Townsend Drive Monroeville, Pennsylvania 15146

EasleyandRivers.com

Phone: (412) 795-4482

Fax: (412) 795-4254

Contact: Valerie J. Bednez;

Design & Sales Associate

Specialty Consultants Firm Marketing and key personnel resume's can be provided upon request.

OWNER

OWNER: STATE OF WV DEPARTMENT OF ADMINISTRATION – Purchasing Division & WEST VIRGINIA ARMY NATIONAL GUARD, Construction and Facilities Management Office
Contacts: West Virginia Purchasing Division, Committee Members and the West Virginia Army National Guard Officials and Facilities Managers as designated

PROPOSED PROJECT TEAM

ARCHITECT: ZILKA AND ASSOCIATES, INC.
Architectural . Planning . Interior Design
Contact: Perry Patrick A. Zilka, AIA **President /Chief Architect**

CONSULTANT: LOVORN ENGINEERING ASSOCIATES, LLC
Mechanical (HVAC & Plumbing), Electrical & Fire Protection
Contact: David W. Crossey, CPD **Principal-in-Charge / Project Manager**

CONSULTANT: R.A. SMITH NATIONAL
Site / Civil Engineers
Contact: Christopher W. Hamm, PE **Project Manager / Design**

CONSULTANT: THE WATKINS PARTNERSHIP, INC.
Structural Engineers
Contact: Stephen M. Watkins, PE **Principal-in-Charge / President**

CONSULTANT: ALLEN & SHARIFF ENGINEERING
Commissioning / LEED Consultant
Contact: Glenn Johnson, CxA **Commissioning Department Head**

PROPOSED CONSULTANTS IF REQUIRED

SPECIALTY CONSULTANT: TRI MARK SS KEMP
Food Service Consultants
Contact: John Zanker **Design & Sales Associate**

SPECIALTY CONSULTANT: ALLEN & SHARIFF ENGINEERING
Audiovisual Systems / Security / Data Technology Consultant
Contact: Christopher DiCianna, PE, LEED AP **Associate Designer**

SPECIALTY CONSULTANT: EASLEY & RIVERS, INC.
Specialty Furniture Design Consultant
Contact: Valerie J. Bednez **Design & Sales Associate**

CLIENT REFERENCES:

Zilka and Associates has maintained a continued relationship with and have completed several successful, on time and on budget projects for the following Clients:

WEST VIRGINIA UNIVERSITY HOSPITALS

Planning, Design and Construction

One Medical Center Drive, Morgantown, West Virginia 26506

Phone: (304) 598 – 4125

Fax: (304) 598 – 4958

Scott Bierer; Facilities Director bierers@wvuh.com

GLENMARK HOLDING LLC

Real Estate Development and Investments

6 Canyon Road, Suite 300 Morgantown, West Virginia 26508

Phone: (304) 599 – 3369

Fax: (304) 599 – 3285

Mark R. Nesselroad; Chief Executive Officer

nesselroad@glenmarkholding.com

WEST PENN ALLEGHENY HEALTH SYSTEMS

WESTERN PENNSYLVANIA HOSPITAL

Engineering and Facilities Department

4800 Friendship Avenue Pittsburgh, Pennsylvania 15222

Phone: (412) 578 – 4191

Fax: (412) 578 – 5202

William Marshall; Facilities Director wmarshall@wpahs.org

SCALO CASE DEVELOPMENT

Real Estate Development and Property Leasing

Foster Plaza 9 750 Holiday Drive, Suite 570 Pittsburgh, Pennsylvania 15220

Phone: 412-250-3000 ext. 218

Fax: 412-250-3001

James D. Scalo; President jscalo@vzw.blackberry.net

ALLIED HEALTH SERVICES

One Stadium Drive, PO Box 8059 Morgantown, West Virginia 26506

Phone: (304) 598 – 4614

Shane A. Rine; Assistant Vice President, Support Services rines@wvuh.com

In addition to some of the long term Clients Listed above, Lovorn Engineering Associates, LLC have continued a relationship with and have completed several successful, on time and on budget projects for the following Clients.

UNIVERSITY OF PITTSBURGH

Office of Facilities Management

3400 Forbes Avenue Pittsburgh, Pennsylvania 15213

Phone: (412) 624-9500

Laura Zullo; Senior Manager, Facilities Management Group



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
DEFK10013

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF
BUYER 32
304-558-2544

RFQ COPY
 TYPE NAME/ADDRESS HERE

ZILKA and ASSOCIATES, INC.
 Architecture . Planning . Interior Design
 1305 Beech Street
 Cheswick, Pennsylvania 15024

DIV ENGINEERING & FACILITIES
ARMORY BOARD SECTION
1707 COONSKIN DRIVE
CHARLESTON, WV
25311-1099 304-341-6368

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
03/14/2010				

BID OPENING DATE: **04/13/2010** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	JB		906-29	(Not Requested at this Time per RFQ)	
				PARKERSBURG READINESS CTR & MAINTENANCE SHOP		
				EXPRESSION OF INTEREST		
				THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, THE WEST VIRGINIA ARMY NATIONAL GUARD'S CONSTRUCTION AND FACILITIES MANAGEMENT OFFICE, IS SOLICITING EXPRESSIONS OF INTEREST FOR PROFESSIONAL ARCHITECTURAL ENGINEERING DESIGN SERVICES FOR A READINESS CENTER AND FIELD MAINTENANCE SHOP LOCATED NEAR PARKERSBURG, WV, IN WOOD CO., PER THE FOLLOWING BID REQUIREMENTS AND THE ATTACHED SPECIFICATIONS.		
				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.		
				***** THIS IS THE END OF RFQ DEFK10013 ***** TOTAL:		(Not Requested)

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE *Ferry P. A. Zilka* TELEPHONE 724.274.5990 DATE April 13, 2010

TITLE President FEIN 25 - 1823150 ADDRESS CHANGES TO BE NOTED ABOVE

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

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

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

DEFINITIONS:

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

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

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

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

WITNESS THE FOLLOWING SIGNATURE

Vendor's Name: ZILKA and ASSOCIATES, Inc. Architectural . Planning . Interior Design

Authorized Signature: *Perry P.A. Zilka* Date: April 12, 2010
(President)

State of Pennsylvania

County of Allegheny, to-wit:

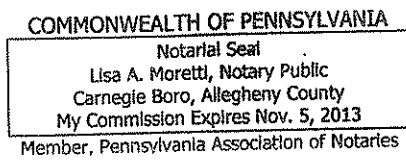
Taken, subscribed, and sworn to before me this 12th day of April, 2010.

My Commission expires 11-5, 2013

AFFIX SEAL HERE

NOTARY PUBLIC

[Handwritten Signature]



ZILKA AND ASSOCIATES, INC.

Architecture . Planning . Interior Design

COMMERCIAL

EDUCATIONAL

HEALTHCARE

INSTITUTIONAL

COMMUNITY

RESIDENTIAL



1305 Beech Street Cheswick Pennsylvania 15024

phone: 724.274.5990

fax: 412.291.1841

ZilkaAIA @ verizon.net

ZilkaAssociates.com

ZILKA AND ASSOCIATES, INC.

COMMERCIAL

At Zilka and Associates, Inc. we believe architecture should be about you, not about us. We don't design to glorify our talent. We design to achieve your unique and specific project goals; to offer an aesthetically pleasing return on investment.

While many see the results of our work as bricks and mortar, it is so much more. The facilities we create are in essence living things that enhance the quality of life and the effectiveness of those who they serve.

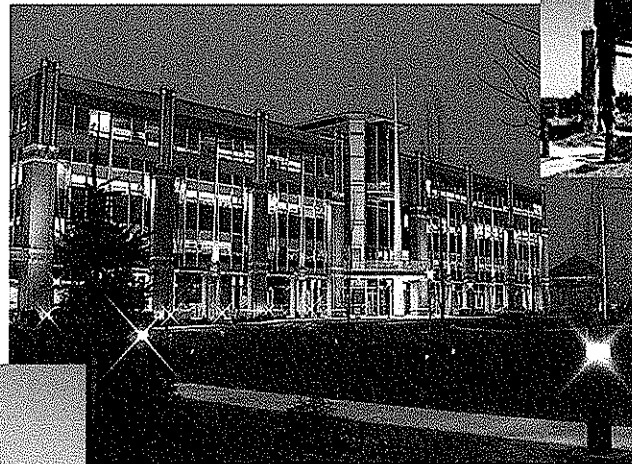


At Zilka and Associates, Inc. we pride ourselves on our ability to listen to you and size up exactly what you're looking for. But we go beyond that. We also understand that your facility may change as the years go by, as old tenants depart and new ones arrive.

Given that, we help you reach a solution that not only meets your needs today, but that is flexible enough to anticipate and accommodate the changes and turnover that will undoubtedly occur in the years ahead.

By creating effective work environments, we can directly affect a company's position in the marketplace, its ability to attract and retain the best employees and, most importantly, improve its financial position.

You have specific goals and needs, and it's our job to help you achieve them. We embark on a discovery process to uncover answers to design questions. We interview, take surveys, and observe real-life situations whenever possible.



Our published findings come in the form of buildable construction documents. The most detailed you'll find anywhere, according to many contractors.

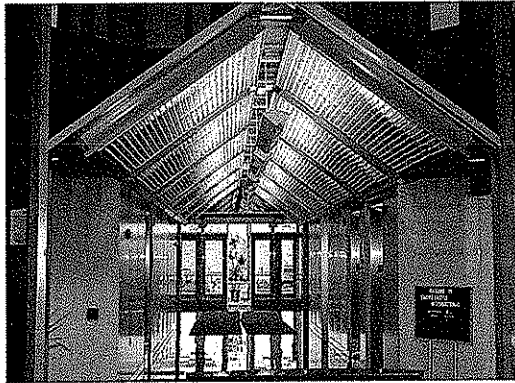
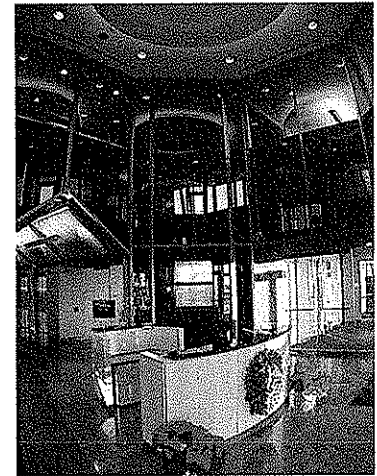
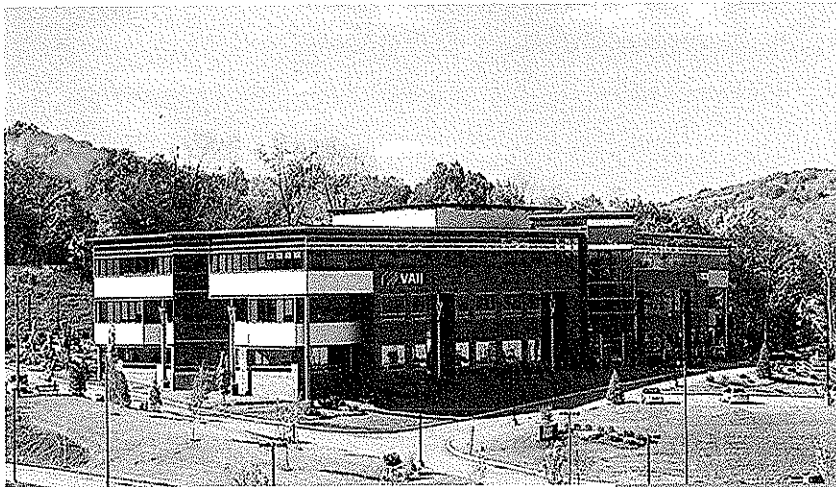
We have the expertise that will help you capture your vision, support your mission, and accomplish your goals. After all, a satisfied client equals a successful project and a lasting relationship.

ZILKA AND ASSOCIATES, INC.

COMMERCIAL

Our architectural practice is diverse in both client and building types. Each project strives to develop an appropriate response to context and circumstances.

Zilka and Associates, Inc. has designed numerous corporate and commercial office buildings in recent years. We work carefully with owners, developers, other design firms, construction managers, and contractors to establish budgets, schedules, and design criteria for each project



Energy efficiency, environmental quality, flexibility, and parking are primary concerns which we integrate into cost effective building and site infrastructure.

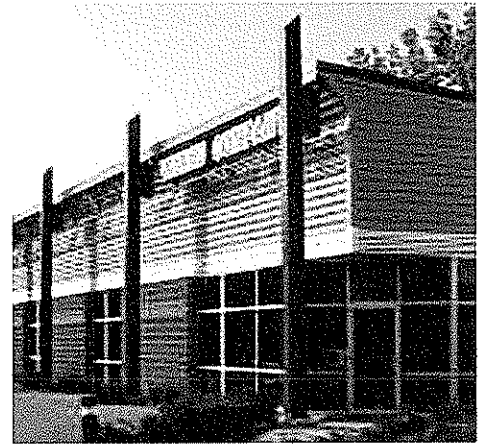
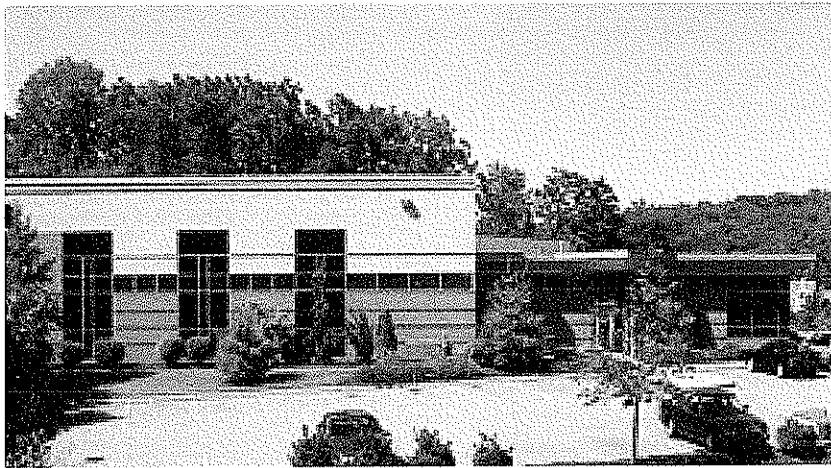
By using high quality materials and distinctive detailing we have created many outstanding office projects.

ZILKA AND ASSOCIATES, INC.

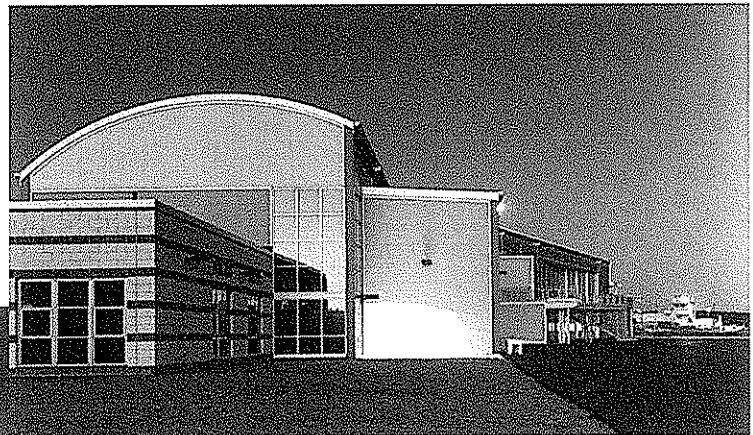
COMMERCIAL

Zilka and Associates, Inc. has designed quality small manufacturing facilities in light industrial applications which combine office and plant into a harmonious and efficient design.

These projects generally range from approximately 20,000 sq. ft. to 100,000 sq. ft. Most utilizing pre-engineered building systems and structures. Multiple materials used for exterior facades, masonry, stucco, vertical or horizontal sidings, curtain wall systems, break metal and exposed steel features.



Zilka and Associates, Inc. is dedicated to each client's best interest. We approach each project as a team, working closely with the client as a member of that team, helping to define and achieve the client's goals.



It is more than just solving problems. We provide solutions that are unique, exciting, functional and affordable.

We provide Innovative solutions for every Architectural Challenge.

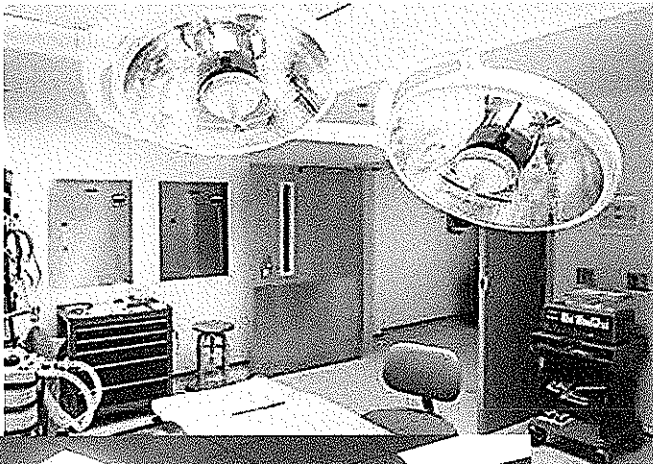
ZILKA AND ASSOCIATES, INC.

HEALTHCARE

The Healthcare Team at Zilka and Associates, Inc. creates environments that support leading edge technology, clinical efficiency and patient sensitivity.

Zilka and Associates, Inc. has a sophisticated network of professional healthcare architects, interior designers, and planners who integrate many years of expertise with your priorities to deliver a solution reflecting your vision.

Our team has the experience to put planning and design in the context of functionality and efficiency, while adhering to the issues of cost and schedule.



The success of any project hinges on the planning team's ability to integrate three essential factors: functional planning, cost, and time

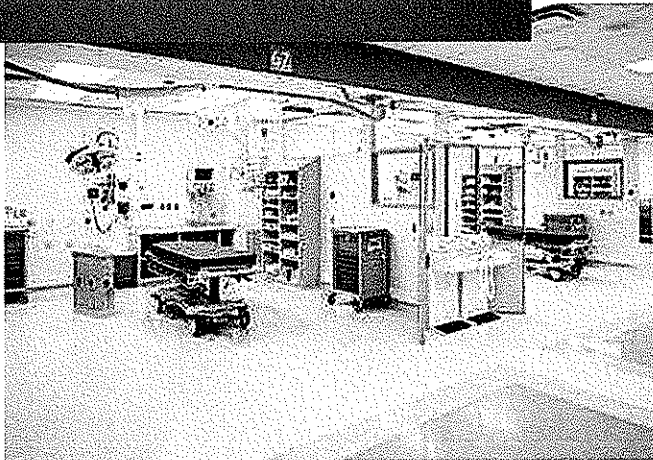
These are the critical elements, which have the greatest impact and the most influence on a project.

Functional planning is the creative aspect of the project, balancing the potential for present and future needs of the facility, improved functionality, and modernized technology, within the bounds of your limited resources.



The next wave of health facilities must support a re-tooled medical delivery system. As planners and designers, we fuse new medical philosophies and practices into appropriate form. Healthcare design requires innovation to meet new clinical, operational, and financial goals.

We collaborate with the Physicians, surgeons, nurses, medical professionals and executives to address the evolving needs of their industry.



Our approach is to listen and sincerely value the individual perspectives of each professional.

The end results are therapeutic communities that support the clinical and emotional needs of patients and caregivers alike.

We have the expertise that will help you capture your vision, support your mission, and accomplish your goals. After all, a satisfied client equals a successful project and a lasting relationship.

ZILKA AND ASSOCIATES, INC.

Good interior design should be viewed as an investment in a quality environment and the support of the activities with that environment.

At Zilka and Associates, Inc. we're not just recommending color and carpet. Sure, those things are important. But they are only a very small part of what we do. From the very start of a project, our interior designers and planners are examining ways to improve your productivity and performance.

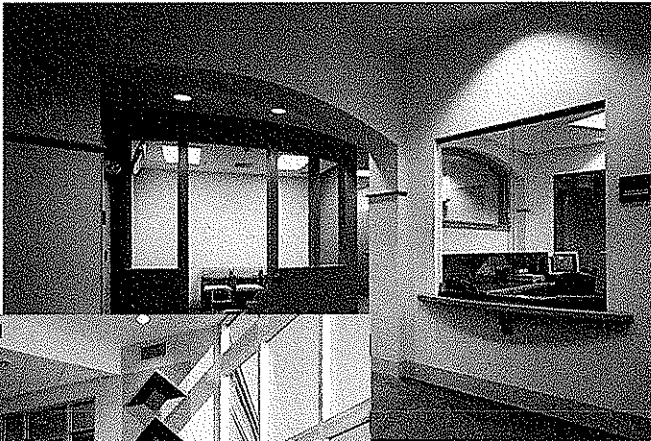
Our designs may express your style or brand. The main concern is to provide a customized design that fulfills your every need, and hopefully exceeds expectations.

INTERIOR DESIGN



The first step to any interior design project is gathering information. We visit your facility and observe how your employees work, students learn, or customers shop, taking note of obstacles to productivity, deficiencies, departmental space and key adjacencies.

When we're through, we'll create a design that overcomes those barriers and allows your operation to maximize its efforts. We pride ourselves in our ability to translate a client's desires and dreams to reality.



Whether you are living, working, playing, healing, or learning, an interior environment should reflect who you are and where you are going.



Our practice is diverse in both client and building types. Each project strives to develop an appropriate response to context and circumstances.

We provide high quality, environmentally sensitive design projects which maximize cost control for the client while at the same time providing aesthetically pleasing and well functioning facilities for users and inhabitants.



ARCHITECTURAL SERVICES PROVIDED

Site Analysis and Selection
Facilities Master Planning
Feasibility Assessments and Studies
Space Programming and Planning
Life Safety Analysis and Reports
Cost Estimating and Life Cycle Studies

New Building Design
Building Renovations and Retrofit
Adaptive Re-Use and Historic Preservation
Tenant Build-Out and Improvements
Phased Building Design
Design Build Services
Sustainable Design
Green Building Design
Equipment and Furniture Planning
Interior Architecture
Interior Design

Design Documents
Contract Documents and Specifications
Construction Advisory Services
Code Analysis and Approval Assistance

Computer Modeling and Walk-Through Animation
Computer Generated and Hand Drawn Renderings
Graphic Design

CONSULTING SERVICES PROVIDED

We have the support of professional consultants who join our team for specialized needs. These consultants include:

Civil / Site Engineering
Structural Engineering
Mechanical HVAC and Mechanical Plumbing Engineering
Fire Protection Engineering
Electrical Engineering
Lighting Design
Landscape Design
Acoustic, Noise and Vibration Control Specialists
Food Service and Equipment Planners
Laboratory / Medical Furniture and Equipment Planners
Audiovisual Systems, Tele Communications Cabling Systems Specialist
Security Design Consultants
Commissioning Services
LEED Consultants

Zilka and Associates, Inc. fee structure is much more competitive than the larger Architectural and Design Firms, for equal or superior quality of service.

We can give you a project to project quote, either on a percentage of construction cost or a fixed fee with a not to exceed clause, or as most client prefer to work with us, on an hourly fee plus basic expenses. See fee schedule below.

Architectural and Interior Design Fee Structure:

Percentage Fees can start as low as 5 % or as high as 8 % Based on Project Complexity and/ or Type of Occupancy and Construction.

- Senior Architect - \$ 100.00 per hour.
- Architect - \$ 85.00 per hour.
- Interior Designer - \$ 65.00 per hour.
- Drafting - \$ 45.00 per hour.
- Clerical/Administration - \$ 32.00 per hour.

Zilka and Associates works with some very reputable and respected Consulting Engineering Firms, We can also solicit a project quote from these Engineers as well or on an hourly fee plus expenses. See fee schedule below.

Consulting Engineers Fee Structure:

Percentage Fees can start as low as 5 % or as high as 10 % Based on Project Complexity and/or Type of Occupancy and Construction.

- Structural Engineer - \$ 95.00 per hour.
- Senior Site/Civil Engineering - \$ 150.00 per hour.
- Landscape Architect and Site/Civil Associate Engineer - \$ 110.00 per hour.
- Site/Civil Associate Designer - \$ 85.00 per hour.
- MEP Engineering Principal - \$ 120.00 per hour.
- Senior Mechanical / Plumbing / Electrical Engineer - \$ 89.00 per hour.
- Mechanical / Plumbing / Electrical Engineer - \$ 78.00 per hour.
- Senior Mechanical / Plumbing / Electrical Designer - \$ 75.00 per hour.
- Mechanical / Plumbing / Electrical Designer - \$ 65.00 per hour.
- Technician / Draftsman - \$ 45.00 per hour.
- Clerical / Administration - \$ 32.00 per hour.

Miscellaneous Fees and Services:

Computer Generated 3D Renderings - vary per complexity requested, average cost ranges from \$950.00 to \$1,800.00 More complex renderings could cost up to \$2,500.00.

On some occasions we still do Hand Rendered Perspectives - vary per complexity requested, average cost ranges from \$850.00 to \$1,500.00.

Reimbursable Expenses:

In addition to the Architect's compensation the Architect shall be reimbursed for expenses incurred in the interest of the project, plus an administrative fee of Five percent (5%). Reimbursable Expenses will be included in the Zilka and Associates, Inc. scheduled invoicing as accrued.

Project Document Cadd Plotting, Reproductions, Printing and Copies.

Postage and Handling of Documents and Samples.

Basic Travel Expenses for Staff and Consultants.

Agency Fees Paid on Owners behalf.

HEALTHCARE CLIENTS**WEST VIRGINIA UNIVERSITY HOSPITALS; Morgantown, WV.**

Cheat Lake Clinic Addition
New Commercial Laundry Facility

Obstetrics Clinic Expansion
Renovations to Rosenbaum Family House

Sleep Disorders Center
New Data & Call Center Facility

THE WESTERN PENNSYLVANIA HOSPITAL; Pittsburgh, Pa.

Magnetic Resonance Imaging Department
Neonatal Intensive Care Unit
Bone Marrow Transplant Department
Master Plan and Life Safety Updates
Medical Short-Stay Department
Planning-9 Story Addition-East Tower II
Operating Rooms and Recovery Areas
Obstetrics Department and Nursery
Delivery Recovery Suites
Ninth Floor Addition-East Tower

Genetic Laboratory
Medical Records Department
Pediatric Department
Ambulatory Surgery Department
New Administrative Offices
Physical Therapy Department
School of Respiratory Care
Delivery Suites Renovations
Fifth Floor Addition- Mellon Pavilion
Surgical Suite Renovations

Thirty Physicians Suites
Fourteen Nursing Units
Occupational Therapy Unit
New Cardiac Cath Lab
Sleep Disorders Center
Emergency Department
Joslin Diabetes Clinic
Cardiology Department Labor
Central Sterile
The Cancer Institute

DUBOIS REGIONAL MEDICAL CENTER; Dubois, Pa.

New Cancer Treatment Center
Emergency Department Renovations
Medical Surgical Unit Renovations

Admissions Department Renovations
Intensive Care Unit Renovations
Obstetrics/Delivery Department

New Cardiac Cath Lab
Nursery Renovations
Main Lobby Renovations

ALLE-KISKI MEDICAL CENTER; Natrona Heights, Pa.

Tri-County Cardiology Suite

Dr. Ferlan's Office Renovations

Dr. Husaini's Office

JEANNETTE MEMORIAL HOSPITAL; Jeannete, Pa.

New Medical Office Building & Doctors' Offices

Emergency Department Renovations

Gift Shop Renovations

MUNCY VALLEY HOSPITAL; Muncy, Pa.

New Medical Offices for Several Physicians

New Operating Rooms/Recovery Area

Medical Arts Building

ST. JOHN'S HOSPITAL; Pittsburgh, Pa.

Intensive Care Unit Renovations

Pharmacy Department

Main Lobby Addition

POTTSVILLE HOSPITAL; Pottsville, Pa.

Pediatrics Department
Adolescent Psychiatric Unit

ST. FRANCIS MEDICAL CENTER; Pittsburgh, Pa.

Magnetic Resonance Imaging Department

Intensive Care Unit Renovations

TITUSVILLE HOSPITAL; Titusville, Pa.

Renovations to Several Nursing Units

Renovations to Administrative Office

BELLVIEW HOSPITAL; Pittsburgh, Pa.

Dr. Reed's Office

Clients and Project Experience listed above are a result of Twenty-five plus years of employment of Mr. Perry P. A. Zilka, AIA as a Project Architect. Since the establishment of Zilka and Associates, Inc. in 1996 He and His Firm have continued the pursuit of Architecture completing several projects as the Architect of Record, Joint ventures with others or as the Consulting Architectural Firm.

K-12 EDUCATIONAL CLIENTS**McKEESPORT AREA SCHOOL DISTRICT; McKeesport, Pa.**

South Hall- High School and VO-Tech Building
North Hall- 7TH and 8TH Grade Building
Francis McClure Middle School Renovations
South Hall and North Hall Gymnasium Projects

George Washington Elementary
Centennial Elementary Renovations
Landscaping at District Office

White Oak Elementary
New Soccer Complex
Cornell Middle School

CENTRAL GREENE SCHOOL DISTRICT; Greene Co., Pa.

High School Auditorium Renovations
Margaret Belle Middle School Renovations

Perry Elementary School Renovations

High School Stadium

ELIZABETH FORWARD SCHOOL DISTRICT; Elizabeth, Pa.

William Penn Elementary Renovations

Mt. Vernon Elementary Renovations

Central Elem. Renovations

BELLWOOD ANTIS SCHOOL DIST.; Williamsport., Pa.

Physical Education Athletic Facility

WAKE COUNTY SCHOOL DIST.; Wake Co., NC.

Marker Middle School Renovations and Addition

PETERS TWP. SCHOOL DIST.; Washington Co., Pa.

Pleasant Valley Elementary School Renovations

GATEWAY SCHOOL DIST.; Monroeville, Pa.

High School Sports Complex Addition

UNIVERSITY CLIENTS**WEST VIRGINIA WESLEYAN COLLEGE; Buckhannon, WV.**

Renovations to Administration Building and Atkinson Hall
Renovations to Annie Merner Pfeiffer Library

INDIANA UNIVERSITY OF PENNA.; Indiana, Pa.

New Cogeneration Power Plant Facility
Student Dormitory Renovations and Upgrades

COMM. COLLEGE OF ALLEGHENY CO.; Pittsburgh, Pa.

North Campus-Byers Hall Mansion- Restoration & Adaptive Reuse
Boyce Campus-Roof Replacement and Exterior Brick Repairs

CHARLES CO. COMM. COLLEGE; Charles Co., Md.

New Library / Learning Resource Center
New Campus Center and Book Store

MELWOOD HORTICULTURE; Prince Georges Co., Md.

New Job Training & Employment Support Facility

HAGERSTOWN COLLEGE; Hagerstown, Md.

New Learning Resource Center

PENNSYLVANIA COLLEGE OF TECH.; Williamsport, Pa.

Aviation Maintenance and Training Center

WASHINGTON & JEFFERSON; Washington Co., Pa.

New Locker Room Facility

GOVERNMENTAL CLIENTS**MUNICIPAL TOWNSHIP OF ADAMS; Mars, PA.**

New Township Municipal Building and Police Station

FRANKLIN PARK BOROUGH; Franklin Park, Pa.

New Borough Building, Maintenance and Police Station

Allegheny County Sanitation Authority (ALCOSAN), Pittsburgh, Pa.

Roof Replacements & Facility Upgrade Projects

Renovations to Administrative Office

Billing and Collection Office

Clients and Project Experience listed above are a result of Twenty-five plus years of employment of Mr. Perry P. A. Zilka, AIA as a Project Architect. Since the establishment of Zilka and Associates, Inc. in 1996 He and His Firm have continued the pursuit of Architecture completing several projects as the Architect of Record, Joint ventures with others or as the Consulting Architectural Firm.

COMMERCIAL OFFICE BUILDING CLIENTS

SCALO-CASE DEVELOPMENT COMPANY; Pittsburgh, Pa.

Stealth I Office Building, SouthPointe, Pa.
Stealth II Technology Office Building, SouthPointe, Pa.
Solutions Consulting Inc. Office Building, SouthPointe, Pa.

FountainHead Office Building, SouthPointe, Pa.
Crown Castle Office Building, SouthPointe, Pa.
150 Bursca Office Building, Bridgeville, Pa.

PRUDENTIAL PREFERRED REALTY; Pittsburgh, Pa.

Prudential Office Building, Cranberry, Pa.

ALLSTATE INSURANCE; Fairfax, Va.

Allstate Office Building, St. Mary's Co., Md.

CHRISTOPHER J. KACLIK, INC.; Pittsburgh, Pa.

Shannopin Square Office Building

MERIT CONTRACTING; Pittsburgh, Pa.

Corporate Office Building

THE ELMHURST GROUP; Pittsburgh, Pa.

Tenant Build-Out for ComCast Regional Office, Ohara Township, Pa.
Lewis-Goetz Office Building, Findlay Township, Pa.

CHAMPION INTERNATIONAL; Canonsburg, Pa.

Corporate Office Building, SouthPointe, Pa.

VARIOUS CLIENTS AND TENANTS

Approximately 400,000 sq. ft. plus of Tenant Space Planning and Interiors

COMMERCIAL LIGHT INDUSTRIAL / WAREHOUSE / MANUFACTURING / OFFICE

BURNS & SCALO ROOFING COMPANY; Pittsburgh, Pa.

Corporate Office & Warehouse Facility

MILLER PLASTIC PRODUCTIONS; Pittsburgh, Pa.

Corporate Office and Production Facility

GRUNO MECHANICAL; Pittsburgh, Pa.

Office Building Addition

ALLIED HEALTH SYSTEMS; Morgantown, WV.

Laundry Production Facility and Office Building

WASHINGTON CHEVEROLA; Washington, Pa.

New Car Dealership - Showroom and Service/Repair Facility

SOUTH HILLS KIA; South Hills, Pa.

New Showroom Facility

EAST COAST CYCLES; Calvert County, Md.

New Showroom and Repair Facility

WOLTZ AND WIND FORD; Carnegie, Pa.

New Showroom Facility

SCALO-CASE DEVELOPMENT COMPANY; Pittsburgh, Pa.

BalTec Manufacturing Facility and Office, SouthPointe, Pa.
HillPointe Office and Light Industrial Facility, SouthPoint, Pa.

HEETER PRINTING COMPANY; Canonsburg, Pa.

Production Facility and Corporate Office, SouthPointe, Pa.

FINANCIAL CLIENTS

WESBANCO; Wheeling, WV.

New Branch Bank, Canonsburg, Pa. New Branch Bank, Preston County, WV. New Branch Bank, Triadelphia, WV.

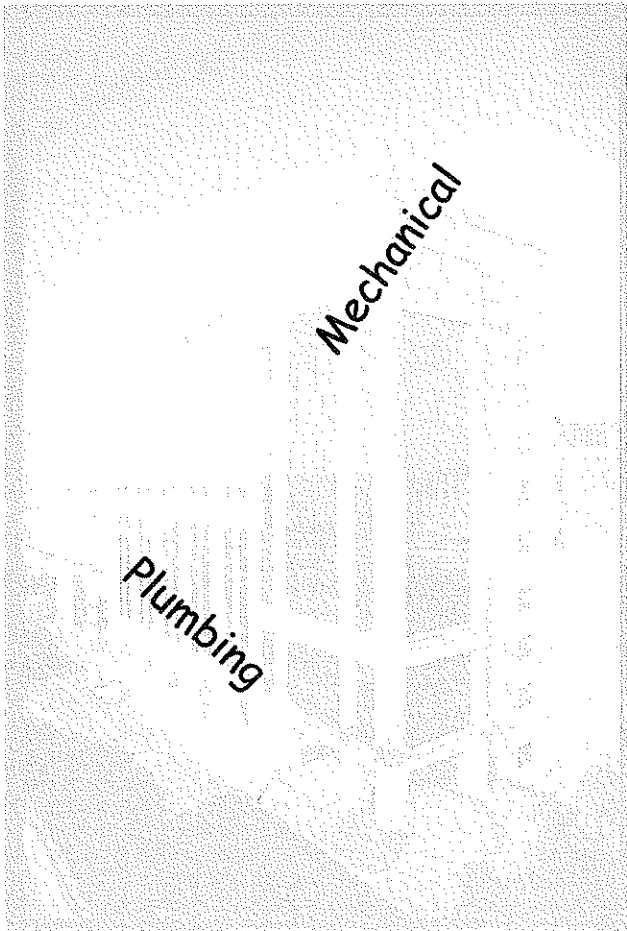
BURKE & HERBERT; Alexandria, Va.

New Branch Bank, Alexandria, Va.

FIDELITY BANK; Pittsburgh, Pa.

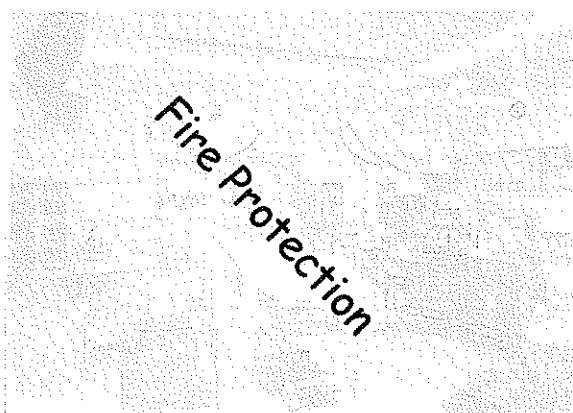
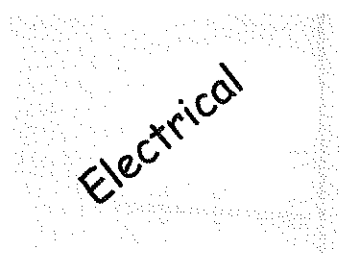
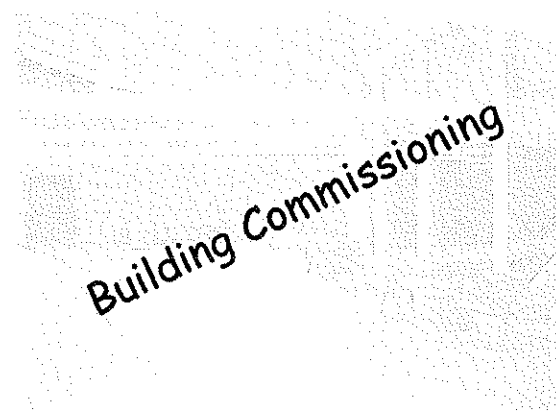
New Branch Bank, Carnegie, Pa.

Clients and Project Experience listed above are a result of Twenty-five plus years of employment of Mr. Perry P. A. Zilka, AIA as a Project Architect. Since the establishment of Zilka and Associates, Inc. in 1996 He and His Firm have continued the pursuit of Architecture completing several projects as the Architect of Record, Joint ventures with others or as the Consulting Architectural Firm.



Lovorn Engineering Associates, LLC

Consulting and Design Engineers

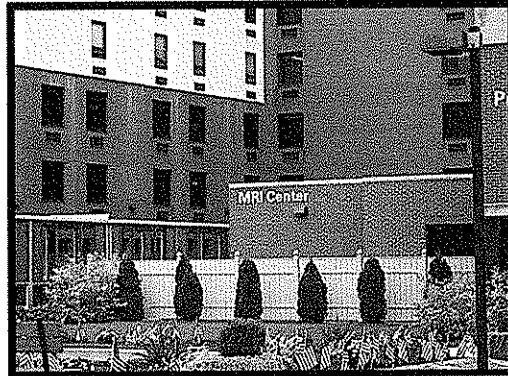


700 Blaw Avenue
Suite 200
Pittsburgh, PA 15238
Phone: (412) 423-2660
Fax: (412) 423-2661

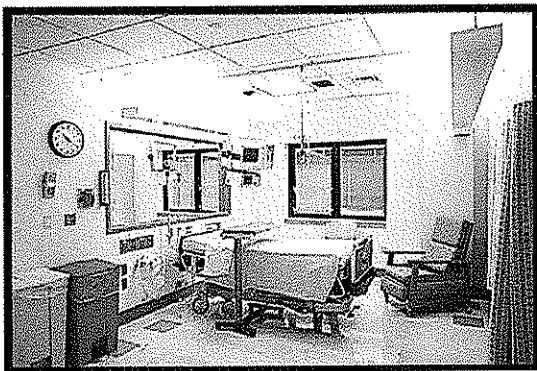
INTRODUCTION TO LOVORN ENGINEERING ASSOCIATES, LLC

Lovorn Engineering Associates, LLC ("LEA") is a full-service engineering firm that provides mechanical, plumbing, fire protection, and electrical engineering solutions to a wide client base throughout Pennsylvania, Ohio, Maryland, and West Virginia. Since 2001, our team of professionals have been dedicated to solving our client's most challenging problems with high quality engineering services at cost effective rates.

LEA provides engineering services from conceptual planning through completion of construction. Because of our expertise in institutional, commercial, and light industrial engineering services. We are capable of completing the design and construction process in an efficient manner. From our beginning, LEA continues to build a loyal customer base. Our resume speaks for itself, with repeat clients and a continually growing project list. A major portion of our design work is in many of the area's health facilities, and universities. In addition to their various disciplines, our team of professionals have experience in project manager, project controls and estimating.



MRI Addition



Patient Room

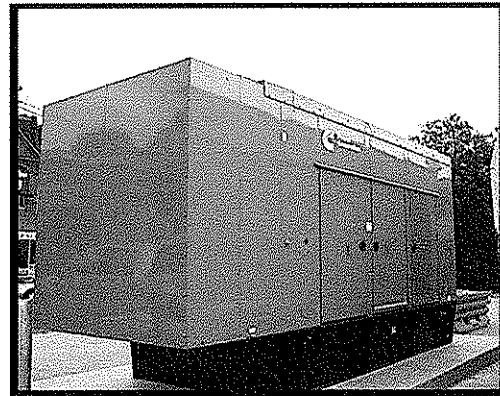
LEA understands that our people are the most important part of our organization. Our staff of experts include mechanical, electrical, plumbing and fire protection engineers and designers. By combining the unique abilities of each individual within the company, we are able to successfully integrate people, planning, and quality assurance processes, thus providing the right engineering solution at a reasonable fee for each project. Our investment in our people insures that our clients gets the greatest value from our organization.

ELECTRICAL DESIGN AND ENGINEERING

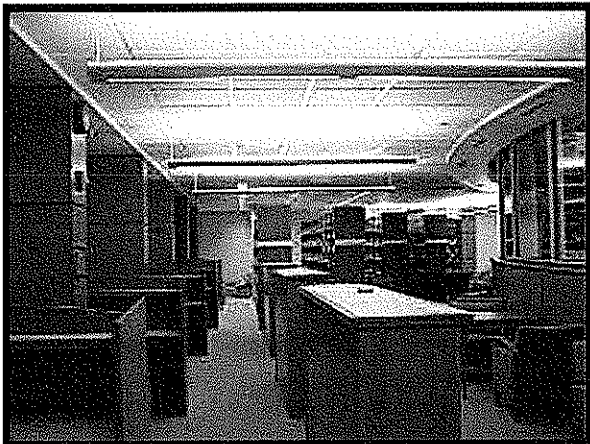
Arguably, the most noticeable system which impacts the users of your facility is the electrical system. With increased technological capability comes more demand for electrical capacity. In order to remain competitive in today's market, business owners need to upgrade their existing facilities electrical system to support their business functions and future growth. There's where LEA comes in.

Smooth and seamless operation of your project demands a well planned and designed electrical system. Electrical systems are an integral part of any building feature that requires power, from your lights and computers to your alarms and emergency exists.

LEA understands this and, through our expertise, we provide system designs that will have your project running at the level you need it to, while adhering to present codes and standards. Our goal is to provide adequate power to meet the needs you have today, while allowing room for future expansion and improvement.



Exterior Generator Installation



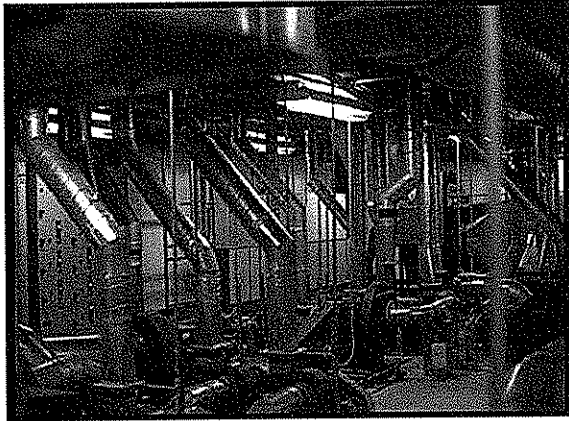
Medical Library
Lighting Design

LEA has experience designing electrical systems such as:

- Power distribution
- Emergency power generation and distribution systems
- Harmonic and electromagnetic filtering and diagnostics
- Automatic and manual interlocks systems
- Nonstandard distribution of power
- Uninterruptible power systems
- Low-energy lighting design - data center
- Specialized lighting for architectural and decorative effects
- Power conditioning systems

HVAC DESIGN AND ENGINEERING

In today's fast paced, service intensive world, the internal environmental conditions of a building are a critical issue for owners and managers. From hospital operating and emergency rooms to corporate office complexes, LEA has the expertise to design an HVAC system that will meet your every need.



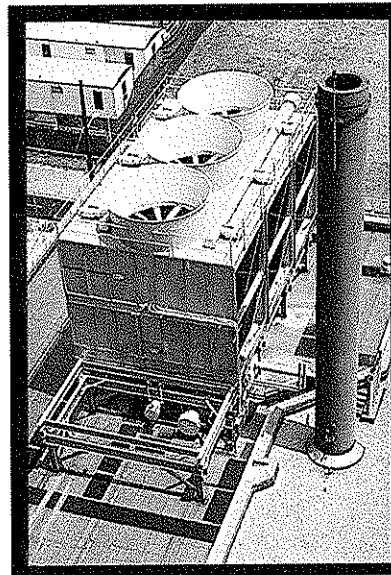
Lab Hood Exhaust

LEA takes many factors into consideration when selecting an HVAC system that will best meet the needs of each specific project. From occupant comfort to indoor air quality and serviceability to specific codes and standards, LEA insures that the system implemented meets your requirements.

In addition to temperature, other factors come into play, such as humidity, ventilation, pressurization, noise and vibration, all of which must be controlled to provide optimal conditions for people, equipment and valuable property. LEA takes all these factors into consideration before selecting a system.

LEA has experience designing HVAC systems that address a multitude of design aspects, such as:

- Fire, smoke and odor control systems
- Industrial ventilation systems
- Industrial process piping systems
- Industrial heating systems
- HEPA filtration/clean rooms
- Infection isolation environments
- Sound attenuation
- Central chiller and boiler plants
- Chilled, hot water and steam systems
- Code review/analysis



Cooling Tower

PLUMBING DESIGN AND ENGINEERING

Our professional staff has worked throughout the tri-state region and has the knowledge and experience to design your plumbing system to meet local codes and standards, which can vary from location to location.

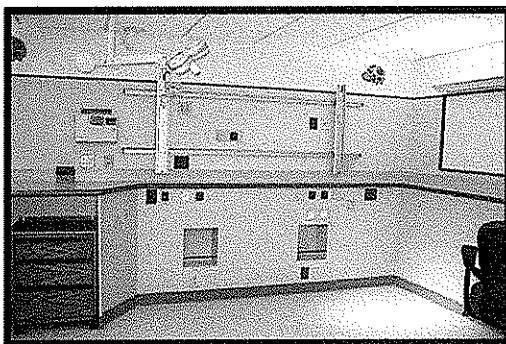


OR Scrub Station

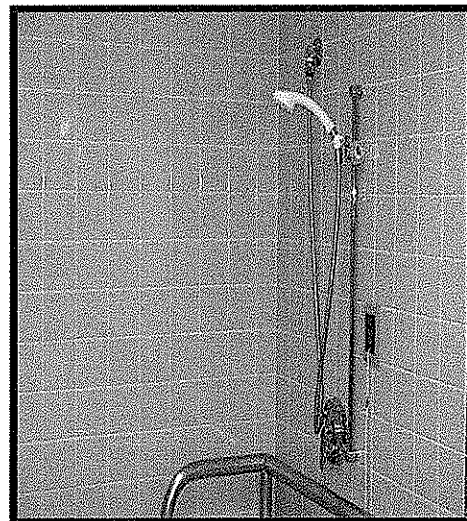
Our plumbing professionals are not only knowledgeable about typical plumbing systems, such as sanitary drainage, water distribution piping, and site utilities, but, also complex and specialized systems including:

- Laboratory acid drainage
- Fuel oil delivery
- Storm water management
- Laboratory gas
- Deionized water
- Ultraviolet filtration
- Municipal sewage and lift stations
- Medical gas

Every project has its own unique qualities. This uniqueness requires us to utilize our experience as well as our knowledge of current codes and standards. Lovorn Engineering's goal is to provide you with a plumbing design that is both economical to install and cost efficient to operate. Here at LEA, we strive to provide the best plumbing solutions for each project.



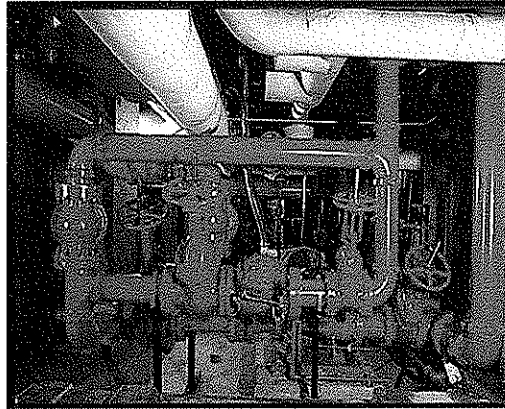
New NICU Suite



Handicapped Shower

FIRE PROTECTION DESIGN AND ENGINEERING

LEA designs modern fire protection systems which incorporate a combination of systems to meet code requirements and address specific hazards. LEA has extensive experience in the installation of sprinkler systems (Wet, Dry, Preaction). Installation of sprinkler systems in existing buildings and designs for new facilities. Our staff has the expertise to install the right system for your building.



Fire protection design includes three distinct disciplines. The first discipline addresses the initial steps in building design which requires the evaluation of the applicable codes and standards, then integrating these requirements into the building system design.

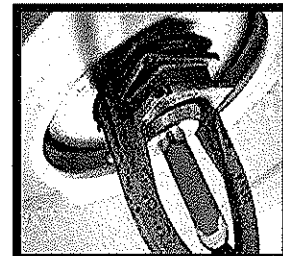
The second discipline addresses the piping for delivering the water suppression medium through the distribution system to the protected areas.

The third discipline is the electrical systems for smoke and fire detection and alarms.

Our experience spans all facets of fire protection design, including:

- Innovative solutions to complex fire hazards
- Use of computer-generated hydraulic calculations
- Thoroughness of design information provided to the contractors.

In addition to our own fire protection professionals, we also utilize the expertise of a Code and Fire Protection Consultant (Brooks Fire Protection). William N. Brooks, P.E. Mr. Brooks has over 35 years of intensive experience in all facets of fire protection engineering.



HEALTHCARE AND SENIOR LIVING FACILITIES

Western Pennsylvania Hospital, Pittsburgh, PA*

- WPH Institute
- Stress Lab
- Tri-County Cardio
- Structural Investigation at Parking Garage
- CADD Updates
- Life Safety Plans
- Ambulatory Care Center
- New Cath Lab in Service Building Addition
- Skywalk Lobby Renovations
- Seclusion Room HVAC Upgrade
- Angio Power Supply Study
- Insurance Underwriter Estimates
- Dialysis Expansion
- Natural Gas Piping Plans
- 6N Short Stay
- Water Heater Modifications - East Tower
- Mellon Pavilion - Replacement of Domestic Water Heater
- Mellon Pavilion - Fire Alarm Replacement
- Radiology Core Improvement
- Heliport
- Mobile MRI Pad
- Data Communications Prototype
- MRI Chiller Installation
- Orthopedic Inpatient Room
- Dr. Delgato's Suite
- Pharmacy/IV Prep
- MRI Replacement
- 3N Renovations
- Linear Accelerator
- Nurses' Residence & Elevator
- Fire Line Replacement
- 6th & 8th Floor Isolation Rooms
- 3rd Floor Radiology CT Equipment Replacement
- Cath Lab Replacement
- PET/CT Scanner
- Medical Staff Offices
- Wireless Network
- Copper Piping Investigation
- Emergency Power for PACS System

Putnam General Hospital, Hurricane, WV

- Operating Room Addition

Monogalia General Hospital, Morgantown, WV

- Surgery Department

Jeannette Hospital, Jeannette, PA*

- ER Renovations
- ER AHU Replacement

Allegheny General Hospital, Pittsburgh, PA*

- Operating Room Expansion
- Accelerator A
- Orthopedics
- EP Lab Expansion
- Interoperative Angiography
- Chest X-ray Room
- Decontamination Renovation
- Water Heater Replacement
- Animal Facility HVAC
- Patient Room Sprinkler Investigation
- TB Ventilation Study
- Emergency Power Study of Lab Medicine Area
- Cart Washer Replacement - Central Processing
- Lab Medicine Air Flow Study
- EP Lab #2
- Core Lab Project
- Federal North MRI Study
- Pediatric ICU
- Federal North MRI Installation
- 9th and 11th Floor BSL-3 Labs
- ICCC Equipment Replacement
- Cath Lab Replacement
- Cardiovascular Institute
- Digital Remote Fluoroscopy
- Cancer Center Café Electrical Design
- Pyxis Installation
- MRI 01 Level
- East Commons HVAC Study
- Decontamination Showers
- NRG Chilled Water Temperature Evaluation
- PET/CT Scanner
- ER Observation Beds
- Surgery Center AHU#2 Investigation
- OR Waiting Room
- Federal North Core Lab
- Snyder Lobby - Public Area Upgrade
- Snyder Pavilion - 1st & 2nd Floor Public Toilet Rooms
- Magovern Conference Center Lighting

Allegheny General Hospital - Suburban Campus, Pittsburgh, PA*

- CT Scanner and Laser Imager
- ICU Expansion
- OR Renovation
- Washer Sterilizer Installation
- Life Care Hospitals LTACH
- OR 5 & 6

Canonsburg General Hospital, Canonsburg, PA

- Emergency Room Addition

HEALTHCARE AND SENIOR LIVING FACILITIES

Forbes Regional Campus, Monroeville, PA*

- New Emergency Room Addition
- Visitor Lobby
- Acute Rehab and Psych Floor Renovations
- Heart Hospital
- Electrical Distribution System Upgrade
- Pharmacy IV Prep - USP 797
- Dialysis Suite
- CADD Updates
- Life Safety
- Residence on Fifth Avenue
- PAX System Installation
- Lab & Dining/Serving AHU Investigation
- 7th Floor Nurses Station Renovation
- Oxygen Tank Upgrade
- Power Factor Correction Investigation
- Lightning Protection
- Medical Gas Room
- Bed Storage and Offices
- Core Lab Equipment
- Exterior Light Poles
- OR Humidity Study
- Basement and 1st Floor Structural Issues
- ED Conference Room
- Anesthesiology Offices
- 6th Floor Meds

Alle-Kiski Medical Center, Natrona Heights, PA*

- Cooling Tower Replacement
- Linear Accelerator
- Deaerator Replacement
- Emergency Department
- Domestic Water Service Modifications
- Boiler Replacement
- MRI at CACC
- CT Scanner Replacement
- Radiation Oncology Simulator
- Simulator Replacement
- Boiler Plant Upgrades

Charles Cole Memorial Hospital, Coudersport, PA

- New MRI
- 4th Floor Revisions
- Infectious Disease Isolation Rooms
- Lab Renovation
- Operating Room Expansion Project
- Third Floor Geriatrics
- 3rd Floor Nursing Unit

UPMC McKeesport, McKeesport, PA*

- MRI Study
- Mansfield ER Modifications
- Mansfield Sprinklers
- Prescott MRI Addition
- B Level Lunchroom
- L-TACH
- Stair Replacement
- Psychiatric Smoking Room
- Parking Garage Structural Study
- PET/CT Scanner Study
- Nuclear Medicine Renovations
- Pharmacy Clean Room
- 500 Ton Chiller Replacement
- CT Scanner Replacement
- 3rd Floor Crawford HVAC & Sprinkler Study
- Heliport Evaluation
- Cardiology Suite Renovations
- Decontamination Revisions
- Radiology Reception Area
- 4th, 5th and 6th Floor Renovations - Kelly Building
- Select Specialty Hospital - Pharmacy
- Bed Tracking Suite
- Mobile PET/CT Scan
- Cancer Treatment Suite Level D - Mansfield
- Austin's Playroom

UPMC Forbes Tower, Pittsburgh, PA

- Early Study to Replace 750 KVA UPS
- Data Center Power Study
- Generator and Substation Installation
- Med Call Center

UPMC Greenville, Greenville, PA*

- Generator Study and Replacement
- Humidity Control at CCU
- Kitchen/Dishwasher Renovation

UPMC Falk Library, Pittsburgh, PA

- Office Renovations
- Early Study for Rare Books Room

UPMC Southside, Pittsburgh, PA

- Boiler Replacement Study

UPMC Magee, Pittsburgh, PA

- Office Building Renovations for Dr. Gur

HEALTHCARE AND SENIOR LIVING FACILITIES

West Virginia University Hospitals - Ruby Memorial Hospital, Morgantown, WV*

- OR Corridor
- PACU Renovations
- NICU Renovations
- Chiller Replacement Study
- Bone Marrow Unit HVAC Upgrade
- Cheat Lake Physician Clinic
- 8th Floor Surgical Suite Fit-out
- Help Desk
- 24KV Feeder Document Review
- Air Balancing for 19th Floor ICU
- Boiler Fuel Oil Piping
- MEP Study

John J. Kane Hospitals, Pittsburgh, PA*

- Hospital Renovations
- Fire Alarm Nurse Call
Scott
McKeesport
Ross Township
- Independent Living Unit
- Transitional Care Unit

St. Barnabas, Gibsonia, PA*

- Third Floor Renovations
- First Floor Renovations
- Auditorium HVAC Investigation

HIGHER EDUCATION, EDUCATIONAL AND LEARNING FACILITIES

University Of Pittsburgh, Pittsburgh, PA*

- Graduate School of Health Labs
- Ventilation System Upgrade
- Lab Renovations at 3343 Forbes Avenue
- Corrections Capacitors
- RIDC Computer Center Electrical Study
- RIDC Computer Center
- Salk Hall Computer Room HVAC
- Cathedral of Learning Room B-44 Office and Conference Rooms
- RIDC Electrical Upgrade
- Genomics Lab
- Craig Hall Computer Room HVAC Renovations

University Of Pittsburgh, Bradford, PA*

- Swarts Hall Renovation

Bloomsburg University, Bloomsburg, PA

- Emergency Power Distribution

Carnegie Library System, Pittsburgh, PA*

- Woods Run Library
- Andrew Carnegie Free Library
- Andrew Carnegie Free Library Music Hall Lobby
- Brookline Library

Phipps Conservatory and Botanical Gardens, Pittsburgh, PA*

- Welcome Center
- Tropical Rainforest
- Production Greenhouses

Pittsburgh Institute of Mortuary Science, Pittsburgh, PA

- Renovations

Carnegie Mellon University, Pittsburgh, PA

- Conference Room Renovations

Carnegie Science Center, Pittsburgh, PA

- Pre Planning for Proposed New Center

BUILDING COMMISSIONING

Nationwide Appraisals Building, Washington, PA

Duquesne University, Pittsburgh, PA

- Multipurpose Recreation Room

Lamar Advertising Building, Pittsburgh, PA

Mountain Ridge High School, Frostburg, MD

Shadyside Academy, Pittsburgh, PA

Western Pennsylvania Hospital, Pittsburgh, PA

- Various HVAC Systems

Forbes Regional Campus, Monroeville, PA

- Various HVAC Systems

Fifth and Forbes Office Building, Pittsburgh, PA

Blackbird Lofts, Pittsburgh, PA

CORPORATE, RETAIL AND RESIDENTIAL FACILITIES

PNC, Pittsburgh, PA*

- CLC Cabling
- Infrastructure A, B, C
- Switchboard A Replacement
- 31st Floor Elevator Switchboards
- 2 PNC Lighting Panel Upgrade
- Plumbing Riser Replacement PNC 2
- PNC 2 Plaza Electrical Design
- One PNC Mezzanine Power Panel Replacement
- One PNC Bus Duct Replacement
- MCC-16 Replacement
- PNC CLC Generator

Murray & Forbes Office Building, Pittsburgh, PA*

- Four Story Office
- Rite Aid Pharmacy

Ice House Artist Studios, Pittsburgh, PA

- Energy Retrofit

KPM Office Building, Ford City, PA

- New Construction

Walnut Capital, Pittsburgh, PA*

- 5555 Hobart Street
- Beechwood Commons

Riverview Towers, Pittsburgh, PA*

- Kitchen Renovations
- Apartment Renovations

Giant Eagle Supermarkets, Various Locations*

- Giant Eagle #1841 - Frederick, MD
- Giant Eagle #1842 - Frederick, MD
- Giant Eagle #8 - New Kensington, PA
- Giant Eagle #54 - Somerset, PA
- Giant Eagle #54 GetGo - Somerset, PA
- Giant Eagle #1618 - Hartville, OH
- Giant Eagle #35 - Pittsburgh, PA
- Giant Eagle #689 - Dover, OH
- Giant Eagle #621 - Ashtubula, OH
- Giant Eagle #681 - Franklin, PA
- Giant Eagle #6384 - Churchill Commons
- Giant Eagle #604 - Poland, OH
- Giant Eagle #73 - West Mifflin, PA
- Giant Eagle #643 - Sarver, PA
- Giant Eagle #3081 GetGo - Mt. Pleasant, PA
- Giant Eagle #10 - Irwin, PA
- Giant Eagle #1609 - Moraine Pointe Plaza, PA
- Giant Eagle #6348 - Ravenna, OH
- Giant Eagle #6503 - Polaris, OH
- Giant Eagle #699 - Uniontown, PA

Clark Building, Pittsburgh, PA

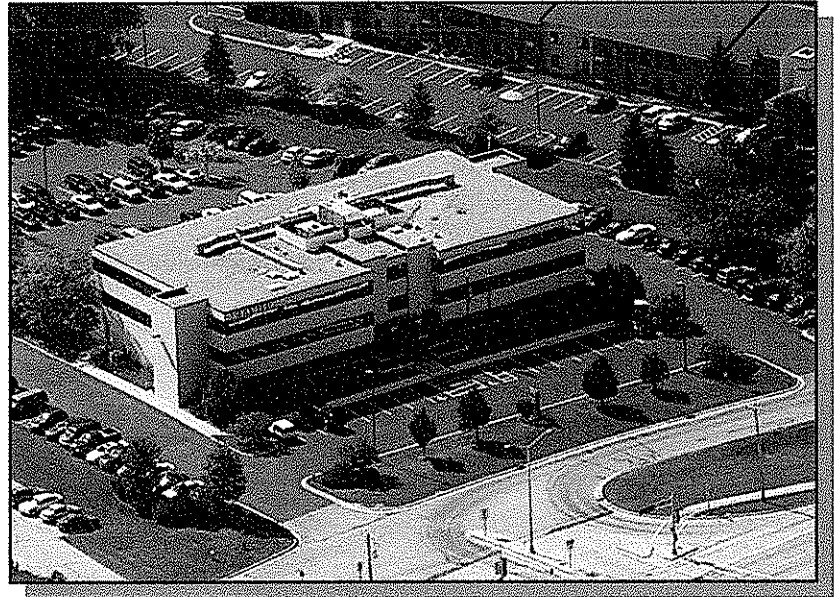
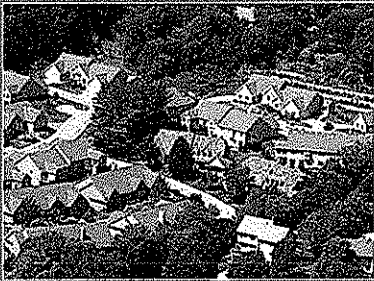
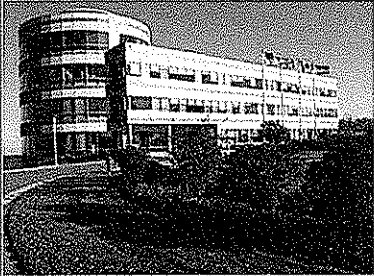
- Frost & Co. Jewelry Store

North Aiken Apartments, Pittsburgh, PA

- New Construction

Gilda's House, Pittsburgh, PA

- Renovations



R.A. SMITH NATIONAL

Year Established: Established in 1978 as R.A. Smith & Associates, Inc., the firm acquired National Survey & Engineering in 1994. National Survey & Engineering, founded in 1929, operated as a division of R.A. Smith & Associates, Inc. until the R.A. Smith National brand was created in March 2008.

President/Owner: Richard A. Smith, M.S., P.E.

Legal Status: Privately Held Corporation

Address: 300 Corbet Street, Suite 200B
Tarentum, PA 15084
Phone: 724-224-2330 Fax: 724-224-5254

Additional Offices: Brookfield (Corporate), Appleton, Oshkosh, and Madison, Wisconsin

Web: www.rasmithnational.com

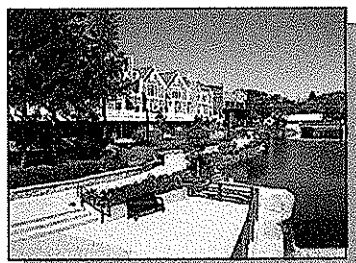
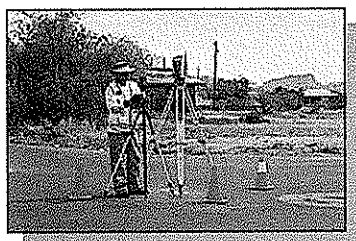
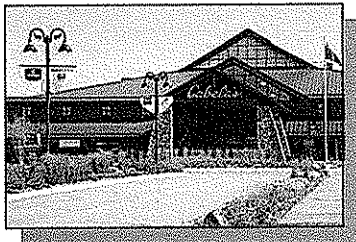
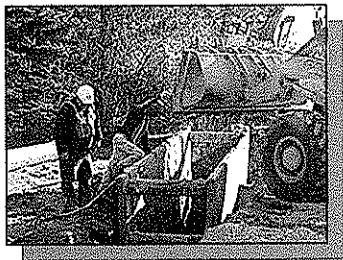
Staff Size: 155 employees: land development, municipal, construction, transportation, and traffic engineers; surveyors; landscape architects and irrigation specialists; and 3-D Visualization professionals

Clients: Public Sector
state and local government agencies
Private Sector
developers, retailers, corporations, institutions, architects

R.A. Smith National

*Beyond Surveying
and Engineering*

Vision—Excellence—Responsiveness
www.rasmithnational.com



SERVICES OVERVIEW

Land Development Engineering

large format retail
residential subdivisions
regional shopping malls
health care facilities
educational/religious facilities
commercial retail development
industrial/business parks
feasibility studies
public works infrastructure

Municipal Engineering

riverwalks, parklands
public boat launches, piers
park layouts
bike / pedestrian path planning
bluff stabilization
dam rehabilitation
industrial, business parks
sanitary sewer, storm sewer design
stormwater management plans
roadway: design, inventory, rehab
roadway: management plans
capital improvement planning
impact fee reports/studies
public improvement evaluation
inter-municipal agreements
plan/plat review
drainage problem resolution
ordinance and resolution writing
sanitary sewer planning studies
sewer system evaluation surveys

Bridge & Structural Engineering

preliminary bridge design
hydraulics, hydrology
final bridge design
structure & bridge maintenance
retaining wall design
sign bridge design
structure/bridge value engineering

Transportation Design

urban and rural highways
roundabouts
noise barriers
ornamental/streetscape features
parking lots
bike paths, pedestrian walkways

Traffic Engineering

TIA's
transit operations
traffic signal design
signal timing and coordination
functional intersection design
signal warrant studies
safety analysis, technical reviews
access control
transit improvement strategies
transportation planning

Water Supply and Distribution

water system master planning
water main design
elevated storage tanks
booster stations

Visualization

animation
rendering
interactive visualization tools

Construction Services/ Engineering

highway and bridge construction
coating and corrosion analysis
grading, curb and gutter
sanitary and storm sewer
water main
storm water conveyance/storage
landscaping/restoration
payment receipts, punchlists
Closeouts

facility record drawings
materials testing
erosion control

Landscape Architecture

site analysis
site planning and design
park and open space
urban planning
retail/lifestyle centers
commercial development
residential development
municipal development
vegetation analysis
vegetation inventory/evaluation
irrigation design
construction documents

Surveying

architectural
boundary
remonumentation
certified surveys
platting
construction staking
right-of-way
land divisions, land research
topographic
transportation design
structure and building layout
facility record drawings
national survey coordination

Water Resources

floodplain studies & zoning
FEMA map revisions
stormwater system analysis & design
flood management planning & design
stream & channel modifications
streambank stabilization
waterway & wetland permitting
dam failure analysis
bridge hydraulics & sizing
wetlands analysis, treatment, design

Information Technology

planning, networking design
training, support services
web development

Grants/Legislation Services

funding research / legislative updates
grants writing

R.A. Smith National

*Beyond Surveying
and Engineering*

Vision—Excellence—Responsiveness
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The WATKINS
partnership inc.
Consulting Structural Engineering

3032 Mitchellville Road - Suite 202
 Bowie, Maryland 20716
 (301)249-0974

Portfolio

- education facilities
- health facilities
- office buildings
- recreation
- religious
- residential
- retail
- specialty

Locations

- Corporate Office
- Virginia Division Office
- Westminster Division Office

Employee Bios

Employment Opportunities

Groupwise



Education Facilities

Student Services Center — Anne Arundel Community College

This project involves a new two story 91,200 Sqft. building and a connecting Pedestrian Bridge to the renovation of the existing Student Service Building. The structure is steel framed on conventional spread footings. Construction completion was in 2002.



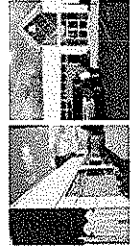
Completion Date: 8/2002
 Total Cost: \$7,500,000.00
 Work for which firm was/is responsible: \$1,200,000.00

Library/Learning Resource Center — Charles County Community Center

The renovation of an existing two story steel framed building. The scope of work included extensive structural revisions for a new elevator and revised stair access. The project required the removal of the entire exterior of the building and the replacement with a new brick and block exterior. The project required the coordination of the new mechanical systems and the existing structure. New elevator shafts had to be installed. The project was a total of 48,000 square feet.

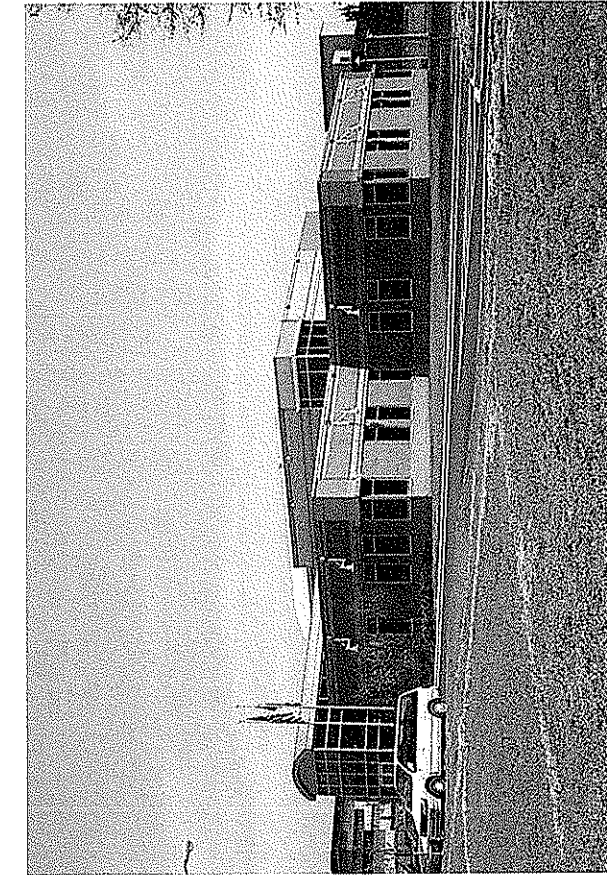
Completion Date: 7/1997
 Total Cost: \$4,000,000.00
 Work for which firm was/is responsible: \$600,000.00

Kiddies Kollege — Laurel, Maryland

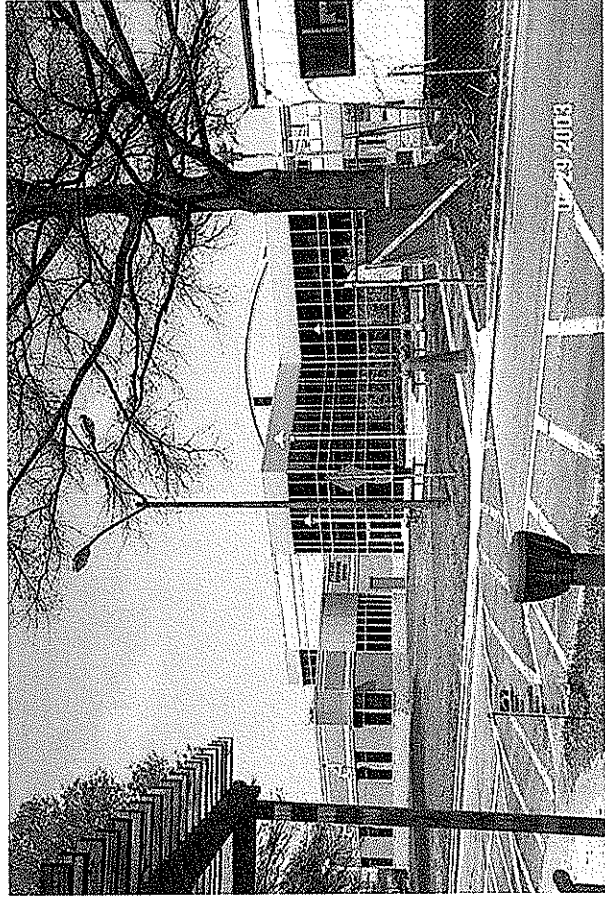


8. Work by firm or joint-venture members which best illustrates current qualifications relevant to this project (list no more than 10 projects).

a. Project Name & Location	b. Nature of Firm's Responsibility	c. Project Owner's Name & Address and Project Manager's Name & Phone Number	d. Completion Date (actual or estimated)	e. Estimated Cost (in thousands)	
STUDENT SERVICES CENTER ANNE ARUNDEL COMMUNITY COLLEGE Arnold, Maryland	Structural Design	Anne Arundel Community College 101 College Parkway Arnold, Maryland Mike Wilson (410)647-7100	8/2002	7,500	1,200

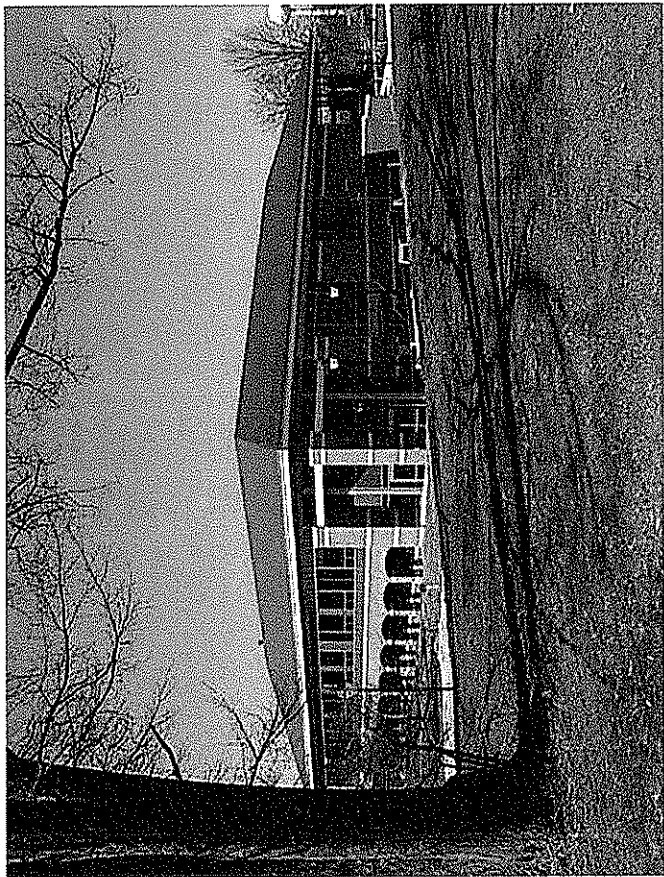


ANNE ARUNDEL COMMUNITY COLLEGE STUDENT SERVICES CENTER: This project involves a new two story 91,200 Sqft. building and a connecting Pedestrian Bridge to the renovation of the existing Student Service Building. The structure is steel framed on conventional spread footings. Construction completion was in 2002.

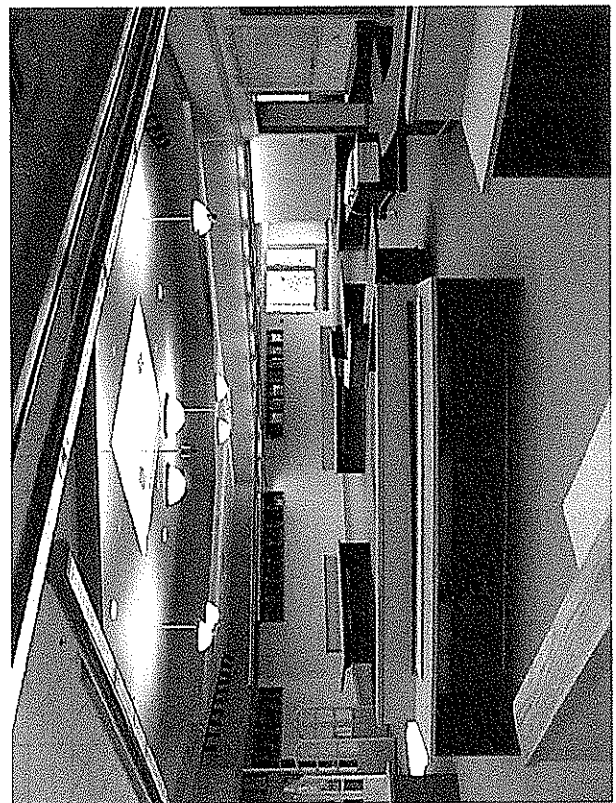


8. Work by or joint-venture members which best illustrates current qualifications relevant to this project (list no more than 10 projects).

<p>a. Project Name & Location Library/Learning Resource Ctr Charles City Community Center LaPlata, Md. 20646</p>	<p>b. Nature of Firm's Responsibility Structural Design</p>	<p>c. Project Owner's Name & Address and Project Manager's Name & Phone Number Charles City Comm College Box 910, Mitchell Rd LaPlata, Md. 20646-0910 Dr. Sine, Pres. 301 934-2251</p>	<p>d. Completion Date (actual or estimated) 7/1997</p>	<p>e. Estimated Cost (in thousands)</p> <table border="1"> <tr> <td data-bbox="239 136 371 304"> Entire Project 4,000 </td> <td data-bbox="239 304 371 462"> Work for which firm was/is responsible 600 </td> </tr> </table>	Entire Project 4,000	Work for which firm was/is responsible 600
Entire Project 4,000	Work for which firm was/is responsible 600					



CHARLES COUNTY COMMUNITY COLLEGE LIBRARY: The renovation of an existing two story steel framed building. The scope of work included extensive structural revisions for a new elevator and revised stair access. The project required the removal of the entire exterior of the building and the replacement with a new brick and block exterior. The project required the coordination of the new mechanical systems and the existing structure. New elevator shafts had to be installed. The project was a total of 48,000 square feet.



10. Use this space to provide any additional information or description of resource qualifications including any computer design capabilities) supporting your firm's

The Watkins Partnership is a medium size engineering firm devoted exclusively to providing structural engineering services. We have been performing this function as a firm for over twenty years. The two partners in the firm have a combined experience in excess of seventy years.

The entire professional staff of the Watkins Partnership are registered engineers. The staff has had experience in the design of a variety of structures but its major efforts have been in building design. Recent projects The Watkins Partnership has been involved with are:

CHARLES COUNTY COURTHOUSE EXPANSION, LAPLATA, MARYLAND The 152,00 sq. ft. expansion of the existing courthouse. The new construction will consist of new court rooms, offices and storage facility. The lower level will be for parking. The first floor will be for county offices. The upper level will be court rooms. The construction will be steel framed with masonry walls and concrete floors. The approximate cost of construction is \$15 million.

CHESAPEAKE COLLEGE ECONOMIC DEVELOPMENT CENTER: A large one story Auditorium and stage are with attached classroom and office wings. The foundation is on spread footings. The building construction was a mix of steel frame and masonry construction.

ANNE ARUNDEL COMMUNITY COLLEGE STUDENT SERVICES CENTER: This project involves a new 91,200 Sq. ft. building and a connecting Pedestrian Bridge to the renovation of the existing Student Service Building. The structure is steel framed on conventional spread footings. Construction completion of this is expected in 2002.

THE GYMNASIUM AND POOL BUILDING RENOVATION AND ADDITION, ANNE ARUNDEL COMMUNITY COLLEGE in Arnold, Md. The addition totals 8,500 sq. ft. and includes an elevator lobby to provide access between the different levels. The cost of construction is \$3.5 million.

LEARNING RESOURCE CENTER FOR CHARLES COUNTY COMMUNITY COLLEGE, CHARLES COUNTY MARYLAND: This project consisted of the renovation of the existing 48,000 sq. ft. building. The entire exterior skin of the building was removed and replaced. Major interior renovations also required restructuring the existing steel frame and concrete floor.

11. The foregoing is a statement of facts
Signature: _____

Typed Name and Title: Stephen M. Watkins, P.E., President

Date: 10/11/2004

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entire exterior skin of the building was removed and replaced. Major renovations also required restructuring the existing steel frame and concrete floor.

Other projects include: Work at , an indoor regulation size double ice rink, Hardford County, Maryland, Md., we provided services for the Anne Arundel County Alterations for cable TV PEG Studio, which were converted theater space to a sophisticated sound studio with control rooms, we have been involved with, Severn School - New Academic Student Center, Severna Park, Md., The Headquarters for Howard County Department of Parks and Recreation, the Beltsville Community Center. Breton Bay Golf and County Club House, St. Mary's County

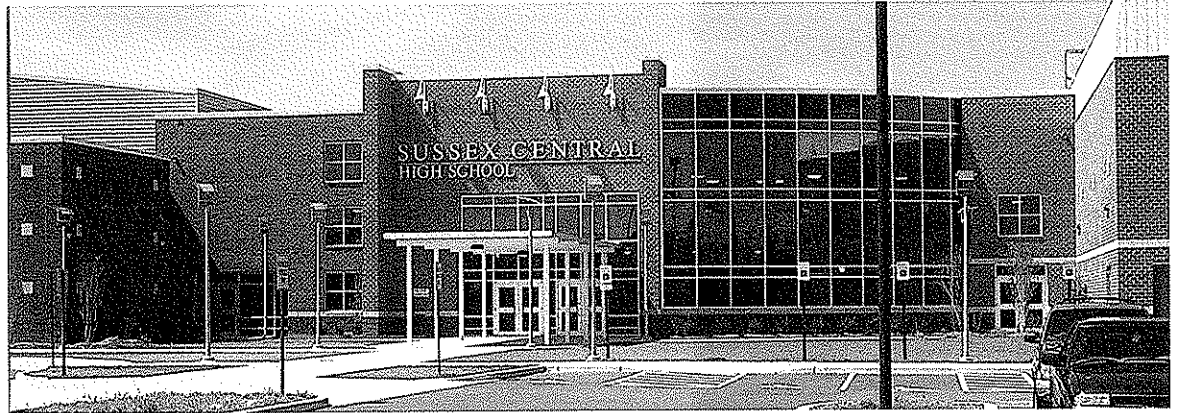
We were also the structural engineers for the design of the Hotel and Management Facility at the University of Maryland, Eastern Shore, the construction cost for this project was approximately \$9.0 million. Construction has been recently completed on the Center for Business and Industry for Charles County Community College, this project is approximately 40,000 sq. ft., estimated cost of construction, \$4 million. The project included a large convention hall and kitchen facility

The Watkins Partnership has also been involved with several designs for Anne Arundel Community College, two of these designs were for classroom buildings each totaling approximately 13,000 sq. ft. We are now working on the renovation of the campus library at Charles County Community college, approximate cost \$3.7 million. Construction was also recently completed on the Dining Facility for Wesleyan College in West Virginia. Approximate cost of \$4.0 million.

All staff members have worked on government projects and cognizant of required quality of work, adherence to government specifications and of course, cost control. We make a strong effort to conform to the schedules set by the one for whom the project is being accomplished.

The primary goal of The Watkins Partnership is to become an integral part of the team, to meet the schedules and be an asset to the project.

Institutional Projects



Sussex Central High School - Georgetown, DE



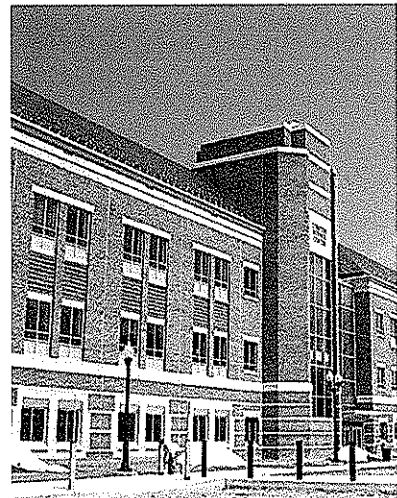
Clifton T. Perkins Hospital Center - Jessup, MD



Public Safety Training Center



Grove City Student Housing - Grove City, PA

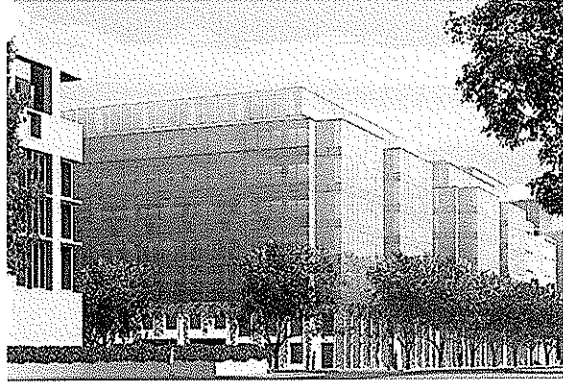


Compton Science Center

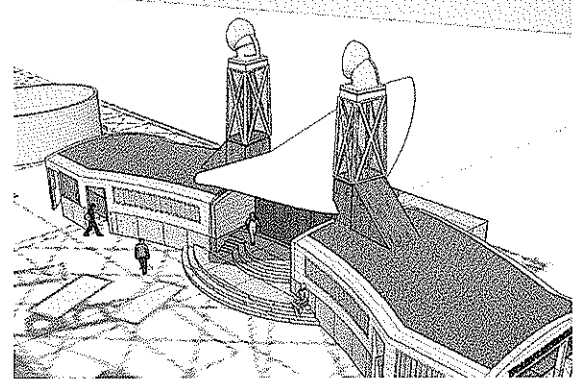


UMB University Campus Center - Baltimore, MD

LEED Projects



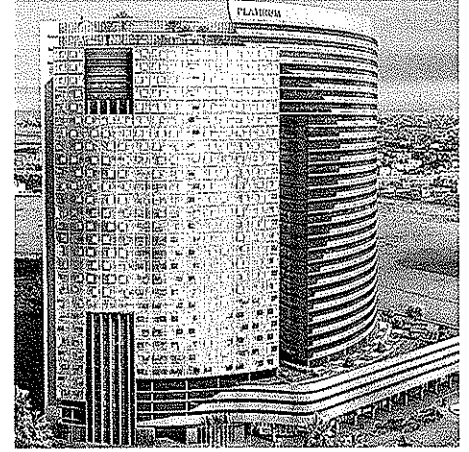
SEC Child Development - Washington, D.C.



Comfort Station - Ocean City, MD



Census Building - Baltimore, MD



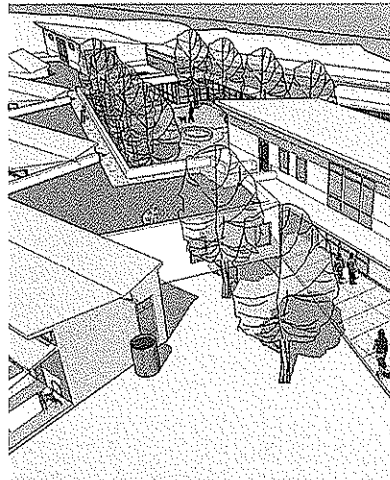
Platinum Towers - Dubai, UAE



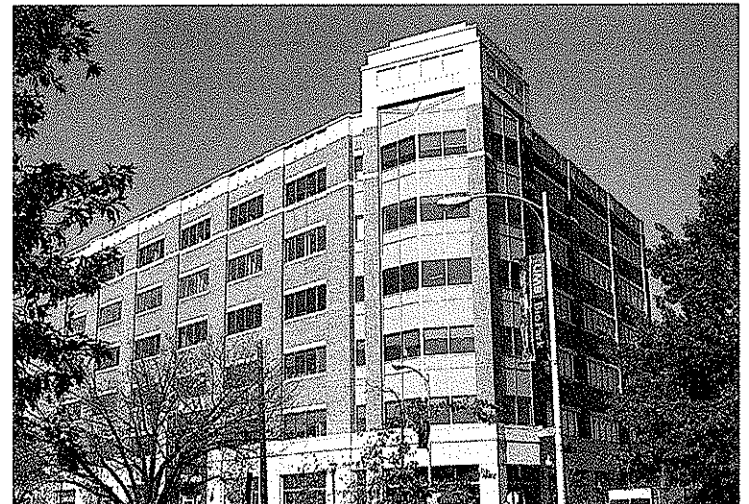
UPMC - 62nd Floor - Pittsburgh, PA



Medical Pavilion at HOCO - Columbia, MD



Safe Haven - Sussex Cty, DE



UMB Bio Park - Building 1 - Baltimore, MD

FIRM PROFILE

Founded in 1993, Allen & Shariff Corporation is a client-focused Mechanical, Electrical, Plumbing (MEP), Fire Protection, Information Technology / Telecommunications design engineering and Construction Services firm. In addition, Allen & Shariff has an Energy Services Group that concentrates its efforts on design/build projects focusing in on high performance buildings that are energy efficient. The firm embraces the Leadership in Energy & Design (LEED) green building approach, and employs over twenty (20) LEED-accredited professionals in its attempt to raise consumer awareness of green building benefits.

We believe in creating strategic partnerships with our clients to provide the right design solutions. The skills of our people, our sub-consultants, and our commitment to quality design and client satisfaction make the Allen & Shariff team a valued and trusted partner.

What separates Allen & Shariff Corporation from other engineering firms is the diversity of talents on our staff. This variety of professional expertise lies at the foundation of our in-house capability to provide our customers with telecommunications, audio / visual, security systems, energy services and commissioning support in addition to MEP services. Our Construction division is available to work in concert with our design group to provide all the pre-construction and construction services our clients require. These resources give Allen & Shariff the ability to provide clients with a single point of contact, providing both engineering and construction management services for their project.

Allen & Shariff Corporation also provides highly focused facility management consultancy to its clients through its Allen & Shariff Facilities, LLC division. The various tools offered are geared towards efficiently operating and maintaining various types of facilities. Its central offering is FacilityONE, a web-based facility management program that provides asset tracking, work order management, and condition assessment data. Through the use of FacilityONE, Allen & Shariff Facilities, LLC, helps its clients recognize significant improvements in operational and energy efficiency. FacilityONE provides the opportunity to monitor building systems and ensure that they are operating within certain parameters, and allows building operators to spot changes to system performance that could lead a building to go out of commission, reducing energy costs.

Allen & Shariff Corporation has provided its clients with quality service, operating on the following guiding principles:

- Provide optimal "design-engineer-solve" services to each project
- Meet all project deadlines
- Provide professional services at competitive rates

We have expertise in the engineering, quality control, construction management and construction administration of building mechanical, electrical, plumbing, and technology systems and offer the following additional specialized services:

- Sustainable Design and LEED Commissioning
- Site Investigations/Value Engineering/Feasibility Studies
- Indoor Environmental Analysis
- System Analysis and Troubleshooting
- Building Controls Automation
- Due Diligence Reports
- Energy Consulting
- Commissioning
- Construction Phase Services
- Operation & Maintenance Consulting
- Construction Services
- Facility Management Information Systems

The Allen & Shariff team is comprised of over one hundred (100) professional staff including registered professional engineers, designers, CAD, LEED ® Accredited Professionals, certified commissioning authorities, construction and administrative personnel. Our engineers are registered in more than thirty states. Allen & Shariff's headquarter is located in Columbia, Maryland, and has strategically located branch offices in Salisbury, Maryland Pittsburgh, Pennsylvania and the United Arab Emirates (U.A.E.).

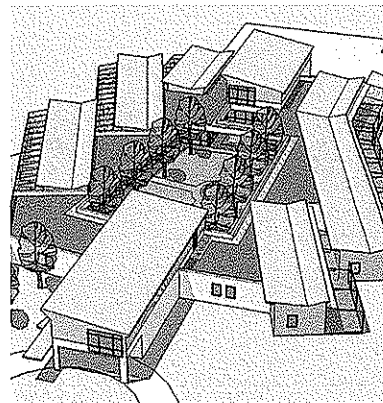
Sustainable Design

ASE has been involved in the design of LEED® projects using the NC, CS, and CI rating systems. Project types include biomedical research, multi-dwelling residential, fire stations, office buildings, community centers, and educational facilities. The following is a list of projects that we have been involved in that have a LEED component:

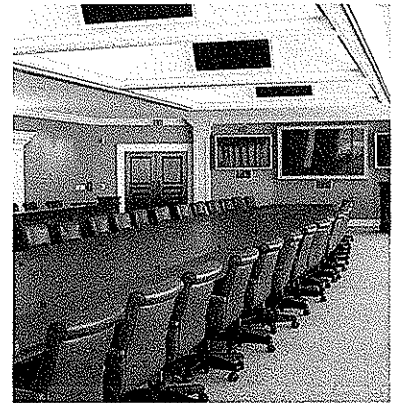
UMB BioPark Building 1 - Baltimore, MD
SEC Child Development Center (SEC Headquarters) - Washington, DC
UPMC @ USX Phase 1 - Pittsburgh, PA
Pentagon Library & Conference Center (PLC2) - Arlington, VA
Worcester County Government Building Addition, Snow Hill, MD
235 Carroll Street - Takoma Park, MD
Medical Pavilion @ Howard Co. General Hospital - Columbia, MD
Maple Lawn Midtown Medical - Howard Co., MD
Maple Lawn Office Building #4 - Maple Lawn, MD
Torchio Office Building - Centerville, MD
Nationwide Appraisals - Washington, PA
Waverly Gardens Senior Apartments - Woodstock, MD
Potomac Yard Land Bay (Mixed-Use) - Arlington, VA
Grand Fort Dubai Hotel - Dubai, U.A.E.
Platinum Towers at Business Bay - Dubai, U.A.E.
Gaithersburg Indoor Aquatic & Recreation Center - Gaithersburg, MD
Oxon Hill High School - Prince George's County, MD
North Gate - Fairfax, VA
Takoma Park Square 3357 - Takoma Park, MD
Kimpton Inn Park - Potomac, MD
Census Building - Baltimore, MD
Century 270 Office Building/Parking Garage - Germantown, MD
Caroline Street Comfort Station - Ocean City, MD
Meridian Square Office Building - Columbia, MD
Dunmanway Center - Dundalk, MD
Waterview Condominiums - Baltimore, MD
District of Columbia Public Library - 4200 Wisconsin Ave.
Safe Haven Animal Sanctuary - Sussex County, DE



UMB Biopark



Safe Haven Animal Sanctuary



UPMC @ USX

Environmental Philosophy

Allen & Shariff is committed to being responsible to our community and environment, and the use of sustainable and green building technologies and construction. To formalize this commitment, we have prepared the following Environmental Philosophy Statement.

Allen & Shariff is committed to conserving natural resources and protecting our environment. It is our goal to reduce the impact we make on the planet in the course of our operation, and to promote and provide environmentally conscious and sustainable design and construction practices.

We support the following efforts:

- *Reduce the effect of our daily operation on the environment by conserving energy and water, reducing our use of consumable products, and recycling.*
- *Explore opportunities to include environmentally conscious design and construction principles in each and every project.*
- *Provide education to our staff and the customers regarding conservation and sustainable design and construction.*
- *Provide time, effort, and financial assistance to select environmentally concerned causes and organizations.*

In support of this philosophy, Allen & Shariff has initiated a program consisting of training and an incentive, to encourage our staff to become LEED® Accredited Professionals. We currently have 21 LEED® Accredited Professionals, representing all offices and disciplines, with many more currently preparing to sit for the exam. We are also members of the United States Green Building Council, and are constantly looking at our operations for ways to live by our environmental philosophy.



In further support of this philosophy, and because of the growing demand for energy efficient buildings and the use of alternate energy sources, we have created the Energy Services Group. This group is headed up by Vice President, Tatyana Shine, P.E., LEED® AP who specializes in high efficiency building designs. The Energy Services Group looks at alternate energy sources, (wind, solar and geothermal) for implementation into our MEP designs. Energy modeling is a big part of the complete package that is required to ensure an efficient design.

CEO Zack Shariff, P.E., LEED® AP is proud to volunteer on the Howard County Commission on the Environment and Sustainability. County Executive, Ken Ulman called the committee "a collection of the best environmental minds in Howard County." The Executive noted that small sections of a number of different county agencies, including planning and zoning, public works and the Health Department, all deal with environmental issues. Having this commission gives him the advantage of a wealth of good ideas and outside perspectives without costing much money in an area he describes as one of his "signature" initiatives.

Commissioning (Cx)

Purpose:

Verify that the fundamental building systems and components are designed, installed and are performing as intended in accordance with the Basis of Design (BOD) and the OPR (Owners Project Requirements) and to meet current needs and sustainable requirements (LEED).

Benefits:

- Lower energy and operating costs
- Increased occupant comfort and productivity
- Improved IAQ
- Enhanced system reliability
- Reduced operations and maintenance costs

Cx Authority Responsibilities:

Commissioning (systems as defined by scope)

Pre-design – Assist in the development of the BOD/OPR

Design – Review design documents for compliance with BOD/OPR

Construction – Review construction for compliance with BOD/OPR and contract documents, applicable submittal review.

Acceptance – Verification of system(s) performance, documentation, O&M training

Post Acceptance – “Seasonal” testing, Retesting and final Cx report, operational review.

LEED Prerequisite Cx (NC) (systems related to Energy and Atmosphere)

Pre design – Review BOD/OPR for clarity and completeness

Design – Incorporate Cx requirements into the contract documents.

Construction – Develop Cx Plan

Acceptance – Verification of system(s) performance

Post Acceptance – Final CX report

LEED Enhanced Cx (NC) (Systems related to energy and atmosphere)

Pre Design – Review BOD/OPR for clarity and completeness

Design – Incorporate Cx requirements into the contract documents, 50% CD design review

Construction - Develop Cx plan, Review applicable submittals

Acceptance - Verification of system(s) performance

Post Acceptance - Develop systems operation manual, O&M Training, Final Cx Report, 10-month operational review

LEED Cx (EB) (Systems related to energy and atmosphere)

Develop CX plan based on original design intent/CD's

Verification of system(s) performance (comprehensive Cx)

Develop comprehensive building operations plan

Repair/upgrade all systems/components that are not working in compliance with building operation plan

Re-test systems/components requiring repairs/upgrades

Allen & Shariff Engineering - Services

Mechanical Engineering Services

- Cooling Plant Design
- Refrigeration Condensing Systems
- Air Handling Equipment Systems
- Low Temperature Systems
- Direct Expansion Systems
- Chilled Water Systems
- Ground Source Heat Pump Systems (Geothermal)
- Central Systems
- Rooftop Unit Systems
- Heating Systems
- Heat Recovery Systems
- Variable Volume Systems Design
- Dehumidification Systems Design
- Building Automation Systems
- Resolving Operational Problems

Plumbing Engineering Services

- Sanitary & Storm System Design
- Natural & Propane Gas Distribution
- Domestic Water Systems
- Piping Layout
- Flow & Pressure Calculation
- Fire Suppression Systems Design

LEED® Consulting Services

- High Efficiency Heating and Cooling Equip.
- High Efficiency Lighting Systems
- Water Efficient Equipment
- Mechanical Ventilation / Heat Recovery
- Radiant Systems
- Natural Ventilation
- Geothermal

Electrical Engineering Services

- Medium Voltage Power Distribution
- Electrical Power Distribution System Design
- Lighting System Design
- Lighting Control & Dimming Design
- Lightning Protection System Design
- Roadway Lighting Design
- Transformer & Grounding Design
- Emergency Power Generator & UPS Design
- Short Circuit & Coordination Studies
- Master Utilities & System Planning Feasibility Studies
- Power Quality / Conditioning Design
- Fire Alarm Systems
- Life Safety Systems
- Raised Floor Applications
- Computer / Data Room Facilities
- Cogeneration System Design

Technology Engineering Services

- Data / Voice Communications Infrastructure
- Data Centers
- Audio-Visual Systems
- Electronic Security Systems
- Fire Detection / Alarm Systems
- TV Signal Distribution
- Intercom / Public Address Systems

Commissioning / Construction Phase Services

- New Building Commissioning
- LEED Prerequisite/Enhanced Commissioning
- Retrocommissioning / Recommissioning
- On-Site Construction Compliance Reviews
- Third Party Inspections
- Warranty Review
- Due Diligence Reports
- System Troubleshooting / Testing
- Change Order Analysis
- Bid Leveling / Review