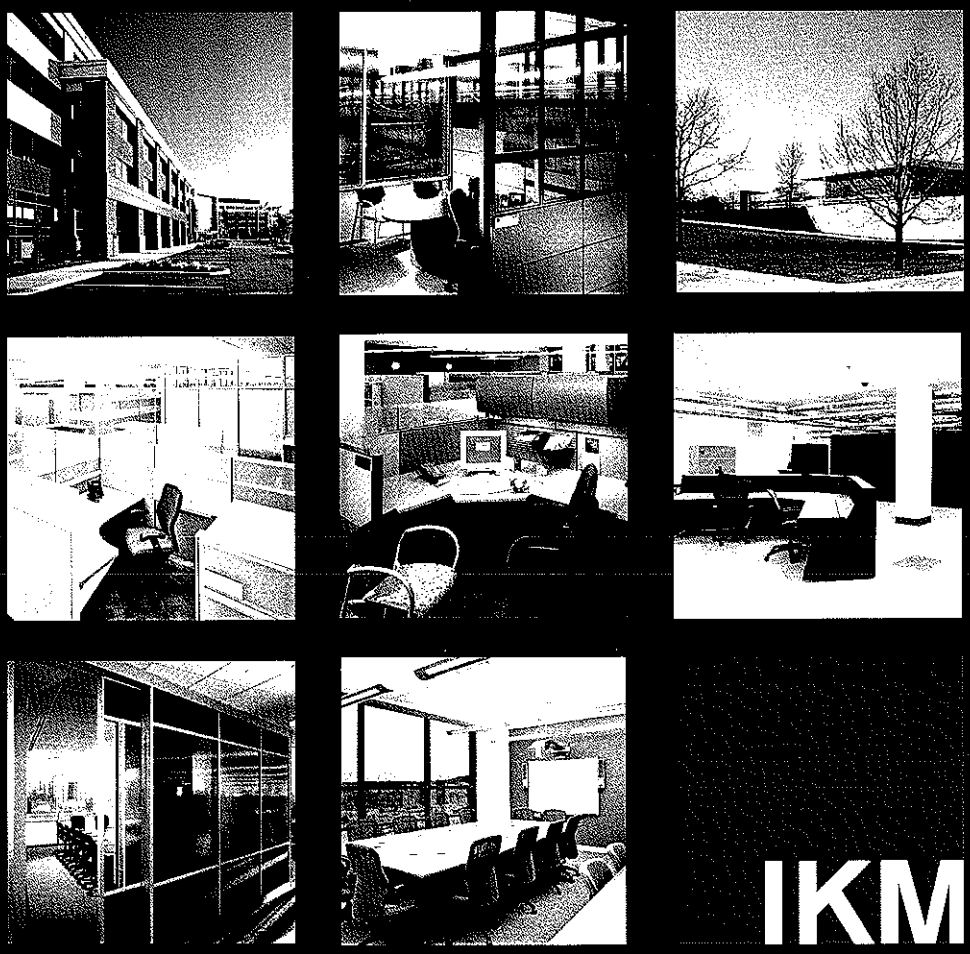


IKM

ARCHITECTS INTERIOR DESIGNERS PLANNERS

Qualifications to provide
Professional Architectural/Engineering
Design Services for a

Joint Operations Facility

near the West Virginia National Guard State Headquarters
Charleston, WV

March 15, 2011

One PPG Place • Pittsburgh, PA 15222 • P: 412.281.1337 • F: 412.281.4639
www.ikminc.com

architecture
planning
interior design

March 11, 2011

State of West Virginia
Department of Administration
Purchasing Division
Building 15
2019 Washington Street, East
Charleston, WV 25305-0130

RE: A/E Services for a Joint Operations Center near National Guard State Headquarters, Charleston West Virginia

Dear Selection Committee:

Emergency Operations Centers are a key component to the protection of the public's safety. The designer of these facilities needs to be well versed in the numerous details integral to a functionally efficient solution.

IKM Incorporated has the requisite relevant experience and is pleased to submit our qualifications for the new Joint Operations Center to be located in Charleston. We understand the importance of this project and the necessity that its design supports a 100% operational 24/7 facility regardless of circumstances.

IKM has been fortunate to have worked on a similar project for the State of Pennsylvania - the Commonwealth Technology Center at the Fort Indiantown Gap National Guard Facility. We have also worked with other vital facilities that are required to remain in continuous operations for regional and global communications and data. We have selected our engineering consultants, H. F. Lenz, due to our lengthy working relationship and their extensive experience with similar projects.

We have carefully responded to your Request for Qualifications and we are confident our team will ensure this project's success. While we have completed numerous projects in West Virginia, we have never worked directly for you, therefore, I would encourage you to contact our project references in the enclosed SF330 Section F.

We look forward to working with you to create this state-of-the-art Joint Operations Center. If you have any questions or if you need any additional information, please feel free to give me a call. Thank you.

Sincerely,
IKM Incorporated

Joel Bernard, AIA
Principal in Charge

IKM Incorporated

One PPG Place
tsburgh, PA 15222
T: 412-281-1337
F: 412-281-4639

www.ikminc.com

ARCHITECT - ENGINEER QUALIFICATIONS

PART 1 - CONTRACT - SPECIFIC QUALIFICATIONS

A. CONTRACT INFORMATION

1. TITLE AND LOCATION (City and State)
Joint Operations Facility, Charleston, WV

2. PUBLIC NOTICE DATE
February 4, 2011

3. SOLICITATION OR PROJECT NUMBER
DEFK11028

B. ARCHITECT - ENGINEER POINT OF CONTACT

4. NAME AND TITLE
Joel R. Bernard, AIA, NCARB, LEED AP

5. NAME OF FIRM
IKM Incorporated

6. TELEPHONE NUMBER
412-281-1337

7. FAX NUMBER
412-281-4639

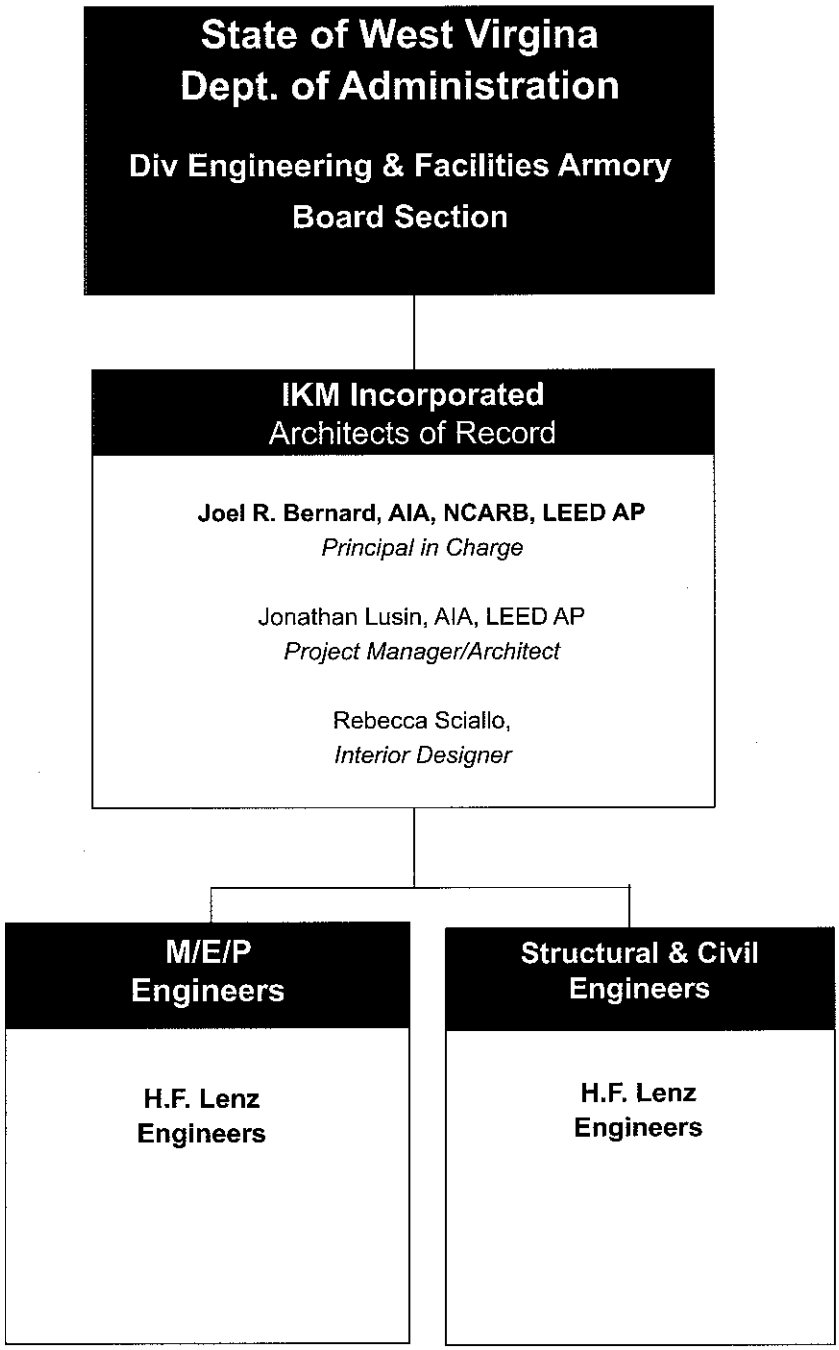
8. EMAIL ADDRESS
jbernard@ikminc.com

C. PROPOSED TEAM

(Complete this section for the prime contractor and all key subcontractors)

	(Check) PRIME	(Check) JV PARTNER	(Check) SUBCON-TRACTOR	9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
a.	X			IKM Incorporated ☐ CHECK IF BRANCH OFFICE	One PPG Place Pittsburgh, PA 15222	Architects of Record
b.			X	H.F.Lenz Co Engineering ☐ CHECK IF BRANCH OFFICE	Johnstown, PA	M/E/P/ FP, Structural and Civil Engineers
c.				☐ CHECK IF BRANCH OFFICE		
d.				☐ CHECK IF BRANCH OFFICE		
e.				☐ CHECK IF BRANCH OFFICE		
f.				☐ CHECK IF BRANCH OFFICE		

D. ORGANIZATIONAL CHART OF PROPOSED TEAM ☒ (Attached)


State of West Virgina
Dept. of Administration
Div Engineering & Facilities Armory
Board Section
IKM Incorporated
Architects of Record
Joel R. Bernard, AIA, NCARB, LEED AP
Principal in Charge
Jonathan Lusin, AIA, LEED AP
Project Manager/Architect
Rebecca Sciallo,
Interior Designer
M/E/P
Engineers
H.F. Lenz
Engineers
Structural & Civil
Engineers
H.F. Lenz
Engineers

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Joel R. Bernard, AIA, NCARB, LEED AP	**Principal in Charge**	20	10

5. FIRM NAME AND LOCATION (City and State)

KM Incorporated One PPG Place Pittsburgh, PA 15222

16. EDUCATION (DEGREE AND SPECIALIZATION)	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)
Bachelor of Art, Williams College Bachelor of Architecture, Boston Architectural College	Registered Architect – PA, MA, CT, NC National Council of Architectural Registration Boards LEED Accredited Professional

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

As the principal-in-charge, Mr. Bernard has overall responsibility for the project, ensuring that it is staffed adequately with qualified persons, that the project is going smoothly, and that it stays on budget and on schedule.

19. RELEVANT PROJECTS *(Up to a maximum of 5 samples)*

a.

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Commonwealth Technology Center Annville, Pennsylvania	2005	N/A

(4) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm

Principal in Charge for the design of a new building to serve as a disaster recovery center for the Commonwealth of Pennsylvania and the Pennsylvania Emergency Management Association and Pennsylvania Homeland Security functions. The first floor was designed to house the data center as well as support areas such as shipping and receiving.

b.

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
VA Pittsburgh Healthcare System Data Center Consolidation Aspinwall, Pennsylvania	2006	2006

(4) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm

Principal in Charge/project manager for the consolidation of VAPHS data centers into a single Tier-2/VA Level-3 Center. Consolidation of hospital information system servers and associated peripheral hardware was also included in the scope. The project encompassed both addition of new space and renovation of existing space to accommodate program requirements.

c.

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Westinghouse New Corporate Headquarters Campus & Data Center Cranberry Woods, Pennsylvania	2010	2010

(4) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm

Principal in Charge for the nearly 1 million SF new headquarters campus. This project is planned in three phases: building one to be completed in Phase 1 with occupancy expected in June 2009; Building 2 and 3 are scheduled completion in 2010. The project is pursuing **LEED® Certification** with US Green Building Council.

d.

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Phipps Conservatory and Botanical Gardens Renovations and Additions Pittsburgh, Pennsylvania	2007	2007

(4) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm

Principal in Charge/Project Manager for a multi-phased addition project of 125,000 square feet to the existing conservatory including a new **LEED® Silver** Welcome Center, Production Greenhouses, a Tropical Forest Conservatory, and Special Events Pavilion. The project involves coordination of numerous specialty consultants including energy modeling engineers. Production Greenhouses required appropriate loading docks for managing various and oversized plant materials

e.

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Westinghouse Training/ Office Facility Chattanooga, Tennessee	2010	2010

(4) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm

Principal in charge for the renovation and new construction of a training and demonstration reactor vessel facility with 60,000 square foot high bay space, 5,000 square feet of attached office space and 30,000 square feet of new office building construction achieved LEED Silver certification..

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Jonathan M. Lusin, AIA, LEED AP	**Project Architect**	a. TOTAL 11.5	b. WITH CURRENT FIRM 2.5

5. FIRM NAME AND LOCATION (City and State)
IKM Incorporated One PPG Place Pittsburgh, PA

16. EDUCATION (DEGREE AND SPECIALIZATION)	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)
Bachelor of Architecture Virginia Polytechnic Institute and State University	Commonwealth of Pennsylvania LEED Accredited Professional

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
As the ***project architect,*** Mr. Lusin is primarily responsible for the detailed execution of the project design and documentation and working with the architectural support staff and production team and the consultants. He communicates regularly with the project manager regarding project status, coordinates with the specifications writer and represents the firm during construction administration.

19. RELEVANT PROJECTS *(Up to a maximum of 5 samples)*

a.
(1) TITLE AND LOCATION (City and State)
Westinghouse Corporate Headquarters Complex & Data Center
Cranberry, Pennsylvania

(2) YEAR COMPLETED: PROFESSIONAL SERVICES 2010 | CONSTRUCTION (If applicable) 2010

(4) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☒ Check if project performed with current firm

Project architect for the nearly 1 million square feet of new construction in three office buildings to accommodate the Westinghouse Electric Company's new corporate headquarters. Phase 1 occupancy began in June of 2009 and subsequent buildings 2 and 3 are scheduled for completion in 2010. A fourth building was added to the site and also scheduled for completion in late 2010. The four building complex will house 4,500 personnel and achieved LEED Certification with the USGBC.

b.
(1) TITLE AND LOCATION (City and State)
Cooper University Hospital
Camden, New Jersey

(2) YEAR COMPLETED: PROFESSIONAL SERVICES 2006 | CONSTRUCTION (If applicable) 2006

(4) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☐ Check if project performed with current firm

Mr. Lusin worked as the project architect as part of the design team on various interior renovation projects at the hospital.

c.
(1) TITLE AND LOCATION (City and State)
Children's Hospital of Pittsburgh, Main Lobby Renovation
Pittsburgh, Pennsylvania

(2) YEAR COMPLETED: PROFESSIONAL SERVICES 2002 | CONSTRUCTION (If applicable) 2002

(4) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☐ Check if project performed with current firm

As an architectural intern, Mr. Lusin provided field measurement of existing lobby and ancillary spaces; construction documentation of the new lobby design; coordination of specifications; attended the bid meeting to discuss scope of construction; and, participated in construction administration activities.

d.
(1) TITLE AND LOCATION (City and State)
Children's Hospital of Pittsburgh Replacement Facility
Pittsburgh, Pennsylvania

(2) YEAR COMPLETED: PROFESSIONAL SERVICES 2003 | CONSTRUCTION (If applicable) 2005

(4) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☐ Check if project performed with current firm

As project architect, Mr. Lusin was involved in the construction documentation of the shell and core and interior fit-out of the new 1.5 million square foot,$625 million dollar replacement facility. Responsibilities included development of wall sections, building elevations and exterior details, documentation of tenant fit-out for outpatient services, and coordination with engineering consultants

e.
(1) TITLE AND LOCATION (City and State)
Westinghouse Training/ Office Facility
Chattanooga, Tennessee

(2) YEAR COMPLETED: PROFESSIONAL SERVICES 2010 | CONSTRUCTION (If applicable) 2010

(4) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☒ Check if project performed with current firm

Project Architect for the renovation and new construction of a training and demonstration reactor vessel facility with 60,000 square foot high bay space, 5,000 square feet of attached office space and 30,000 square feet of new office building construction achieved LEED Silver certification.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Rebecca Sciallo	**Interior Designer**	a. TOTAL: 5	b. WITH CURRENT FIRM: 3

5. FIRM NAME AND LOCATION (City and State)
IKM Incorporated One PPG Place Pittsburgh, PA

16. EDUCATION (DEGREE AND SPECIALIZATION)	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)
Bachelor of Science, Interior Design Art Institute of Pittsburgh	N/A

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Ms. Sciallo joined IKM as an interior designer in 2007. She has 5 years of professional practice in interior design. During her time with the firm, she has established herself as an instrumental design-team member in all aspects of the interiors department as well as within the firm. As the ***interior designer*** on the team, Ms. Sciallo provides drafting, space planning, furniture and finish selection and specification.

19. RELEVANT PROJECTS *(Up to a maximum of 5 samples)*

a.

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
Fort Sill Oklahoma, Tactical Equipment Maintenance Facility US Army Corps of Engineers, Tulsa, Oklahoma	2008	2008

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm

Sub-contractor for Interior Design Services for a Tactical Equipment Maintenance Facilities, totaling over 28,000 square feet, a Fire Brigade interior of 7,800 square feet and scope 4 which was 7800 square feet of space. The scope of the project included finish selections, creation of finish plans and specifications, SID and CID Binders, and furniture selection specifications. This was part of a multi-build project of over 242,000 square feet. The project included administrative offices and shop control spaces, a classroom, Conference/training room, and a work bench room. Role: Interior Design Support

b.

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
BRAC Armed Forces Reserve Center OMS UHS Bell, CA, US Army Corps of Engineers, Louisville District	2008	2008

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm

Sub contractor (50% and 100%) Provided: Finish selections and "Creative Finish Design" Finish specifications, plans, detail floor pattern plans, and (32 sets) SID binders (interior and exterior); Selected furniture and fabrics per Corps' standards, plans/enlarged plans, Specs and (32 sets) CID Binders; Web site specifications. Role: Interior Design Support

c.

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
Fort Bliss Combative Aviation Brigade TMR Texas US Army Corps of Engineers, Fort Worth, TX	2007	N/A

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm

50% submission Provided: Finish selections, created simple floor patterns, finish plans and specifications, (25 sets) SID binders (Interior and Exterior); furniture selections; specifications in Word Document (website not created); (25 sets) CID Binders; Dr. checks comments status at present. Role: Interior Design Support

d.

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
Fort Bragg Vehicle Maintenance Complex Fort Bragg, North Carolina /US Army Engineer District Savannah Corps of Engineers	2007	N/A

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm

50% submission Provided: Finish selections, created simple floor patterns, finish plans and specifications, (16 sets) SID binders (Interior and Exterior); furniture selections; specifications in Word Document (website not created); (8 sets) CID Binders; Dr. checks comments status at present. Role: Interior Design Support

e.

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
Fort Dix New Jersey Combined Maintenance Facility US Army Corps of Engineers, Louisville District	2007	2007

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm

Sub-contractor (50% and 100%) Provided finish selections/finish plans and specifications. SID Binders 16 sets, Furniture selection, per Corps' recommendation, plans and specifications. Specifications submitted on Access program (at 50%) and on Corps' website for 100% submission. Completed CID Binder 16 sets. Role: Interior Design Support

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Thomas F. Deter, P.E., LEED AP	Engineering Principal-in-Charge	24	19

15. FIRM NAME AND LOCATION *(City and State)*

H.F. Lenz Company, Johnstown, Pennsylvania

16. EDUCATION *(DEGREE AND SPECIALIZATION)*	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
Bachelor of Science, Electrical Engineering Technology 1987 / University of Pittsburgh at Johnstown Specializes in Project Management and Electrical Engineering	Licensed Professional Engineer in Pennsylvania, Illinois, Maryland, New Jersey, Ohio, Virginia, and West Virginia and LEED Accredited Professional

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

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

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION *(City and State)*: Pennsylvania National Guard – New Regional Maintenance Facility, Johnstown, Pennsylvania

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2003 | CONSTRUCTION *(If applicable)*: 2004

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

Principal-in-Charge for a new 23,560 sq.ft. maintenance shop. The project included flammable storage, general storage areas, and an on-site fuel dispensing station. The entire area was protected by a perimeter fence and automatic access gates.

b.

(1) TITLE AND LOCATION *(City and State)*: 911th Airlift Wing, U.S. Air Force Reserve Command, Coraopolis, Pennsylvania

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2004 | CONSTRUCTION *(If applicable)*: 2004

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

Principal-in-Charge for various repair and alteration projects under two IDCs, including: a new hazardous waste storage building; Renovation of Aerial Port Building, Building 130; Renovations to the Hangar Building, Building 129; Alterations to the Pharmacy, Building 319; Repairs and alterations to the Base Exchange, Building 300; Repairs and alterations to the gas station and a new vehicle wash addition, Building 322; Replacement of the Base fire/security alarm system

c.

(1) TITLE AND LOCATION *(City and State)*: Letterkenny Army Depot, Chambersburg, Pennsylvania

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: Ongoing | CONSTRUCTION *(If applicable)*:

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

Principal-in-Charge of MEP Engineering for various repairs and alterations to more than 15 buildings under six consecutive IDCs. Services included studies, design, and preparation of RFPs for renovations and new construction for office spaces, industrial spaces, maintenance facilities, warehouse facilities, and other military facilities. Our current contract was awarded in 2009.

d.

(1) TITLE AND LOCATION *(City and State)*: New Cumberland Army Depot – New Billeting Facility, New Cumberland, Pennsylvania

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2004 | CONSTRUCTION *(If applicable)*:

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

Principal-in-Charge for the conceptual design submission for a new 58,000 sq.ft., 58-unit billeting facility. The design included guest rooms, support facilities, conference room, reception and lobby area, and office space. The facility was designed to achieve a SPIRiT sustainability guidelines certified level and incorporates several sustainable features.

e.

(1) TITLE AND LOCATION *(City and State)*: Ohio National Guard, Akron-Canton Regional Airport, Akron, Ohio

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2008 | CONSTRUCTION *(If applicable)*: 2008

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

Quality Control for the design of the expansion and alteration of the existing Army Aviation Support Facility hangar and the design of a new 26,400 sq.ft. aircraft storage facility; Project included a new fire suppression system, modifications to security system, and various interior improvements

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Steven P. Mulhollen, P.E.	Lead Electrical Engineer	22	11

15. FIRM NAME AND LOCATION *(City and State)*

H.F. Lenz Company, Johnstown, Pennsylvania

16. EDUCATION *(DEGREE AND SPECIALIZATION)*	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
Bachelor of Science, Electrical Engineering, 1988/ The Pennsylvania State University, University Park, Pennsylvania Specializes in Electrical Engineering	Licensed Professional Engineer in Pennsylvania, Alabama, California, Florida, Maryland, Missouri, New Jersey, Nevada, New Mexico, North Carolina, Ohio, Tennessee

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

Institute of Electrical and Electronics Engineers, Inc.

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION *(City and State)*: Ohio National Guard, Akron-Canton Regional Airport, Akron, Ohio

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2008; CONSTRUCTION *(If applicable)*: 2008

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

Lead Electrical Engineer for the expansion and alteration of the existing Army Aviation Support Facility hangar and the design of a new 26,400 sq.ft. aircraft storage facility; Project included a new fire suppression system, modifications to security system, and various interior improvements

b.

(1) TITLE AND LOCATION *(City and State)*: U.S. Army Corp of Engineers - Letterkenny Army Depot, Chambersburg, Pennsylvania

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: Ongoing; CONSTRUCTION *(If applicable)*:

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

Lead Electrical Engineer for various projects under several consecutive IDCs including: vehicle cleaning area and fire alarm upgrades; vehicle maintenance building lighting and fire alarm system replacement (350,000 sq.ft.); ATC system and AHU replacement (250,000 sq.ft.); Battery Shop addition; UPS replacement. Our current contract was awarded in 2009.

c.

(1) TITLE AND LOCATION *(City and State)*: Camp Dawson – Billeting Facility, West Virginia

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2004; CONSTRUCTION *(If applicable)*:

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

Lead Electrical Engineer for the lighting, power, fire alarm, and telecommunications design of three new billeting facilities, each consisting of eight sleeping rooms with full baths, a common gathering area with fire place, and a full kitchen. Each sleeping room had individual heating and cooling control. Construction on this project has not yet begun.

d.

(1) TITLE AND LOCATION *(City and State)*: 911th Airlift Wing, U.S. Air Force Reserve Command, Coraopolis, Pennsylvania

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2004; CONSTRUCTION *(If applicable)*: 2004

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

Lead Electrical Engineer for site investigations, preliminary and final design, design analysis, and cost estimates under two IDCs; Projects included: Underground electrical distribution project, Fire alarm system extension for Hanger Bldg 129; Replaced existing fire and security alarm monitoring system with new microprocessor-based system

e.

(1) TITLE AND LOCATION *(City and State)*: Kennametal, Inc., Chestnut Ridge, Pennsylvania

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2004; CONSTRUCTION *(If applicable)*: 2004

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

Lead Electrical Engineer for and open-end contract from 1992 through 2004. The work orders included a number of different projects including: HVAC system upgrades to Bldg No. 1, Dock addition, Office building addition, Central mist collection system, Study for relocation of the extrusion department, Corrections to press pits

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
John C. Stewart, P.E., LEED AP	Lead Mechanical Engineer	26	14

15. FIRM NAME AND LOCATION *(City and State)*

H.F. Lenz Company, Johnstown, Pennsylvania

16. EDUCATION *(DEGREE AND SPECIALIZATION)*	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
Master of Science, Mechanical Engineering, University of Pittsburgh, 1995 Graduate Courses in Facilities Engineering, Air Force Institute of Technology, 1984-1987 Specializes in Mechanical Engineering	Licensed Professional Engineer in Pennsylvania Certified LEED Professional

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

American Society of Heating, Refrigerating, and Air-Conditioning Engineers; APPA

U.S. Green Buildings Council

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION *(City and State)*: Ohio National Guard, Akron-Canton Regional Airport, Akron, Ohio

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2008 — CONSTRUCTION *(If applicable)*: 2008

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

Lead Mechanical Engineer for the expansion and alteration of the existing Army Aviation Support Facility hangar and the design of a new 26,400 sq.ft. aircraft storage facility; Project included a new fire suppression system, modifications to security system, and various interior improvements

b.

(1) TITLE AND LOCATION *(City and State)*: Pennsylvania National Guard – New Armory, Ford City, Pennsylvania

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 1997 — CONSTRUCTION *(If applicable)*: 1998

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

Lead Mechanical Engineer for a new 24,000 sq.ft. training center with classrooms and kitchen/dining facilities and maintenance facility

c.

(1) TITLE AND LOCATION *(City and State)*: Pennsylvania National Guard – New Regional Maintenance Facility, Johnstown, Pennsylvania

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2003 — CONSTRUCTION *(If applicable)*: 2004

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

Lead Mechanical Engineer for a new 23,560 sq.ft. maintenance shop. The project included flammable storage, general storage areas, and an on-site fuel dispensing station. The entire area was protected by a perimeter fence and automatic access gates.

d.

(1) TITLE AND LOCATION *(City and State)*: 911th Airlift Wing, U.S. Air Force Reserve Command, Coraopolis, Pennsylvania

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2004 — CONSTRUCTION *(If applicable)*: 2004

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

Lead Mechanical Engineer for various repair and alteration projects under two IDCs. Projects included: Construction of a new hazardous waste storage building; Renovation of Aerial Port Building, Building 130; Renovations to the Hangar Building, Building 129; Alterations to the Pharmacy, Building 319; Repairs and alterations to the Base Exchange, Building 300; Replacement of the Base fire/security alarm system

e.

(1) TITLE AND LOCATION *(City and State)*: Kennametal, Inc., Chestnut Ridge, Pennsylvania

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2004 — CONSTRUCTION *(If applicable)*: 2004

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

Lead Mechanical Engineer for and open-end contract from 1992 through 2004. The work orders included a number of different projects including: HVAC system upgrades to Bldg No. 1, Dock addition, Office building addition, Central mist collection system, Study for relocation of the extrusion department, Corrections to press pits

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Gregory D. Rummel, CPD	Lead Plumbing/Fire Protection Designer	26	21

15. FIRM NAME AND LOCATION *(City and State)*

H.F. Lenz Company, Johnstown, Pennsylvania

16. EDUCATION *(DEGREE AND SPECIALIZATION)*	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
B.S. in Mechanical Engineering Technology, 2000, Point Park College; Associate in Specialized Technology 1984, Architectural Drafting and Construction with CAD Technology, Triangle Institute of Technology Specializes in Plumbing and Fire Protection Design	Certified in Plumbing Design, ASPE

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

ASPE

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION *(City and State)*: Ohio National Guard, Akron-Canton Regional Airport, Akron, Ohio

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2008; CONSTRUCTION *(If applicable)*: 2008

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

Lead Plumbing/Fire Protection Designer for the expansion and alteration of the existing Army Aviation Support Facility hangar and the design of a new 26,400 sq.ft. aircraft storage facility; Project included a new fire suppression system, modifications to security system, and various interior improvements

b.

(1) TITLE AND LOCATION *(City and State)*: Pennsylvania National Guard – New Regional Maintenance Facility, Johnstown, Pennsylvania

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2002; CONSTRUCTION *(If applicable)*: 2004

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

Lead Plumbing/Fire Protection Designer for a new 23,560 sq.ft. maintenance shop. The project included flammable storage, general storage areas, and an on-site fuel dispensing station.

c.

(1) TITLE AND LOCATION *(City and State)*: Letterkenny Army Depot, Chambersburg, Pennsylvania

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: Ongoing; CONSTRUCTION *(If applicable)*:

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

Lead Plumbing/Fire Protection Designer for various repairs and alterations to more than 15 buildings under six consecutive IDCs. Services included studies, design, and preparation of RFPs. Projects include: Vehicle cleaning area and fire alarm upgrades, Building 320; Battery shop addition, Building 10; Our most recent contract was awarded in 2009

d.

(1) TITLE AND LOCATION *(City and State)*: 911th Airlift Wing, U.S. Air Force Reserve Command, Coraopolis, Pennsylvania

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2004; CONSTRUCTION *(If applicable)*: 2004

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

Lead Plumbing/Fire Protection Designer for various repair and alteration projects under two IDCs. Projects included: Construction of a new hazardous waste storage building; Renovation of Aerial Port Building, Building 130; Renovations to the Hangar Building, Building 129; Alterations to the Pharmacy, Building 319; Repairs and alterations to the Base Exchange, Building 300; Repairs and alterations to the gas station and a new vehicle wash addition

e.

(1) TITLE AND LOCATION *(City and State)*: 911th Airlift Wing, U.S. Air Force Reserve Command, Coraopolis, Pennsylvania

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 1996; CONSTRUCTION *(If applicable)*: 1998

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

Lead Plumbing/Fire Protection Designer for a new 20,000 sq.ft. Base Civil Engineering Building to support a permanent engineering staff and 150 reservists. The building houses: administrative spaces; classrooms; conference room; print room; plumbing, welding and sheet metal shop; paint shop; HVAC and liquid fuels shop; carpentry shop; electrical shop; battery shop; locker rooms; and storage areas.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
David A. Blackner, P.E.	Structural Engineer	20	11

15. FIRM NAME AND LOCATION *(City and State)*

H.F. Lenz Company, Johnstown, Pennsylvania

16. EDUCATION *(DEGREE AND SPECIALIZATION)*	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
Associate, Mechanical Engineering Technology, 1998, Pennsylvania State University Associate, Architectural Engineering Technology, 1988, Pennsylvania State University *Specializes in Structural Engineering*	Licensed Professional Engineer in Pennsylvania, Connecticut, Georgia, Maine, Maryland, Massachusetts, North Carolina, and New York

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION *(City and State)*: 911th Airlift Wing, U.S. Air Force Reserve Command, Coraopolis, Pennsylvania

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
2004	2004

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

Structural Engineer for various repair and alteration projects under two IDCs, including: a new hazardous waste storage building; Renovation of Aerial Port Building, Building 130; Renovations to the Hangar Building, Building 129; Alterations to the Pharmacy, Building 319; Repairs and alterations to the Base Exchange, Building 300; Repairs and alterations to the gas station and a new vehicle wash addition, Building 322; Addition to Building 130 for café, offices and conference center

b.

(1) TITLE AND LOCATION *(City and State)*: Letterkenny Army Depot, Chambersburg, Pennsylvania

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Ongoing	

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

Structural Engineer for various repairs, alterations and new construction projects under six consecutive IDCs. Services included studies, design, and preparation of RFPs for renovations and new construction for office spaces, industrial spaces, maintenance facilities, warehouse facilities, and other military facilities. Our current contract was awarded in 2009.

c.

(1) TITLE AND LOCATION *(City and State)*: Kennametal, Inc., Chestnut Ridge, Pennsylvania

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
2004	2004

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

Structural Engineer for an open-end contract from 1998 through 2004. The work orders included a number of different projects including: Dock addition; Office building addition; Study for relocation of the extrusion department; Structural analysis of air filters; Bldg 1 roof inventory

d.

(1) TITLE AND LOCATION *(City and State)*: Norfolk Southern Corporation, Conway, Pennsylvania

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
2004	2004

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

Structural Engineer for the replacement of the existing Conrail locomotive servicing and maintenance facility to create a state-of-the-art facility to increase the operating flexibility and efficiency and to reduce long-term maintenance costs

e.

(1) TITLE AND LOCATION *(City and State)*: North American Hoganas, Hollsopple, Pennsylvania

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
2001	2001

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

Structural Engineer for the structural engineering services for the conversion of a 390,000 sq.ft. former steel making plant into a powered metals plant

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
James C. Kohler, P.E.	Lead Civil Engineer	30	30

15. FIRM NAME AND LOCATION *(City and State)*

H.F. Lenz Company, Johnstown, Pennsylvania

16. EDUCATION *(DEGREE AND SPECIALIZATION)*	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
Bachelor of Science, Civil Engineering Technology, 1977 / University of Pittsburgh at Johnstown	Licensed Professional Engineer in Pennsylvania, Ohio, Maryland, Virginia and West Virginia

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

National Institute of Civil Engineering Technology

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION *(City and State)*: 911th Airlift Wing, U.S. Air Force Reserve Command, Coraopolis, Pennsylvania

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2004 | CONSTRUCTION *(If applicable)*: 2004

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

Lead Civil Engineer for various repair and alteration projects under two IDCs. Projects included: Construction of a new hazardous waste storage building; Renovation of Aerial Port Building, Building 130; Renovations to the Hangar Building, Building 129; Alterations to the Pharmacy, Building 319; Repairs and alterations to the Base Exchange, Building 300; Repairs and alterations to the gas station and a new vehicle wash addition, Building 322; Replacement of the Base

b.

(1) TITLE AND LOCATION *(City and State)*: U.S. Army Corps of Engineers, Letterkenny Army Depot, Chambersburg, Pennsylvania

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: Ongoing | CONSTRUCTION *(If applicable)*:

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

Lead Civil Engineer for six consecutive IDCs – the most recent ending in March 2004. Projects included: Depot-wide water distribution system evaluation; Rehabilitation of industrial waste treatment pump stations and sewage lift stations; Water line relocation survey; Complete design of missile test firing range; Spill contingency plan; Replace utility poles; Chiller replacement, bldg 3 Megacenter; Our most recent IDC was awarded in 2009

c.

(1) TITLE AND LOCATION *(City and State)*: New U.S. Army Reserve Aviation Facility, Johnstown, Pennsylvania

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 1997 | CONSTRUCTION *(If applicable)*: 1997

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

Lead Civil Engineer for a new 120,000 sq.ft. aviation facility including a training building with administrative spaces, assembly hall, classrooms, learning center, library, and support and storage spaces. The project was included the design of a hangar facility with flexible work bays, various shop spaces, wash bays, and detention area
R, bridge removal/replacement

d.

(1) TITLE AND LOCATION *(City and State)*: Pennsylvania National Guard – New Regional Maintenance Facility, Johnstown, Pennsylvania

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2002 | CONSTRUCTION *(If applicable)*: 2004

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

Lead Civil Engineer for a new 23,560 sq.ft. maintenance shop. The project included flammable storage, general storage areas, and an on-site fuel dispensing station. The entire area was protected by a perimeter fence and automatic access gates.

e.

(1) TITLE AND LOCATION *(City and State)*: U.S. Postal Service, Indefinite Delivery Contract, Pennsylvania and West Virginia

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2009 | CONSTRUCTION *(If applicable)*: 2009

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

Lead Civil Engineer for multiple projects under an IDQ Contract, held by H.F. Lenz Company as the Prime Consultant. Projects include: Entrance drive widening and retaining wall study for the Pittsburgh Bulk Mail Center

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Gregory Facciani, P.L.S.	Project Surveyor	36	14

15. FIRM NAME AND LOCATION *(City and State)*

H.F. Lenz Company, Johnstown, Pennsylvania

16. EDUCATION *(DEGREE AND SPECIALIZATION)*	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
Associate Degree, Forest Technology 1973, Pennsylvania State University	Registered Professional Land Surveyor in Pennsylvania

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

Pennsylvania Society of Land Surveyors (PSLS), Secretary - Allegheny Heartlands Chapter

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION *(City and State)*: Letterkenny Army Depot, Chambersburg, Pennsylvania

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: Ongoing; CONSTRUCTION *(If applicable)*:

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — Check if project performed with current firm: X

Project Surveyor for various renovation and addition projects under six IDCs; Projects included: 1,400 sq.ft. addition to the Security Headquarters, Bldg 521; Renovation of Central Boiler Plant Ammunition Area, Bldg 2360; New hazardous material storage building. Our new IDC was awarded in 2009

b.

(1) TITLE AND LOCATION *(City and State)*: Centers for Disease Control and Prevention/National Institute of Occupational Safety and Health, Pittsburgh, Pennsylvania and

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: Ongoing; CONSTRUCTION *(If applicable)*:

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — Check if project performed with current firm: X

Project Surveyor for an Indefinite Delivery Contract for The National Institute for Occupational Safety and Health (NIOSH), which is part the Centers for Disease Control and Prevention (CDC); a variety of projects have been completed at both research facilities in Morgantown, West Virginia, and Pittsburgh, Pennsylvania. Our second IDC contract was awarded in 2010

c.

(1) TITLE AND LOCATION *(City and State)*: Robert Morris University - On-going Engineering Services, Moon Township, Pennsylvania

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: Ongoing; CONSTRUCTION *(If applicable)*:

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — Check if project performed with current firm: X

Project Surveyor for the upgrades and improvements to the RMU Moon Township Campus; the work involves the creation of a campus loop for utilities, converting the existing overhead electrical and teledata lines to a new underground distribution system, and various renovation and upgrade projects

d.

(1) TITLE AND LOCATION *(City and State)*: Kennametal, Inc., Chestnut Ridge, Pennsylvania

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 1992-2004; CONSTRUCTION *(If applicable)*: 2004

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — Check if project performed with current firm: X

Project Surveyor for open-end contract from 1992 through 2004. The work orders included a number of different projects including: Facility land survey; Dock addition; Office building addition; Study for relocation of the extrusion department

e.

(1) TITLE AND LOCATION *(City and State)*: Bridge Inventory and Inspection Program, Cambria County, Pennsylvania

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 1997-2012; CONSTRUCTION *(If applicable)*:

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — Check if project performed with current firm: X

Project Surveyor for three 5-year IDCs to provide inspection and surveying services for 26 bridges throughout the County; Projects include: Inspection and evaluation of the condition of county-owned bridges including integrity, waterway channel stability, ability to provide safe traffic flow, and general public safety; Completing code forms to be used in the update of bridge management systems (BMS)

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICTIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects,if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER: 1

21. TITLE AND LOCATION (City and State)

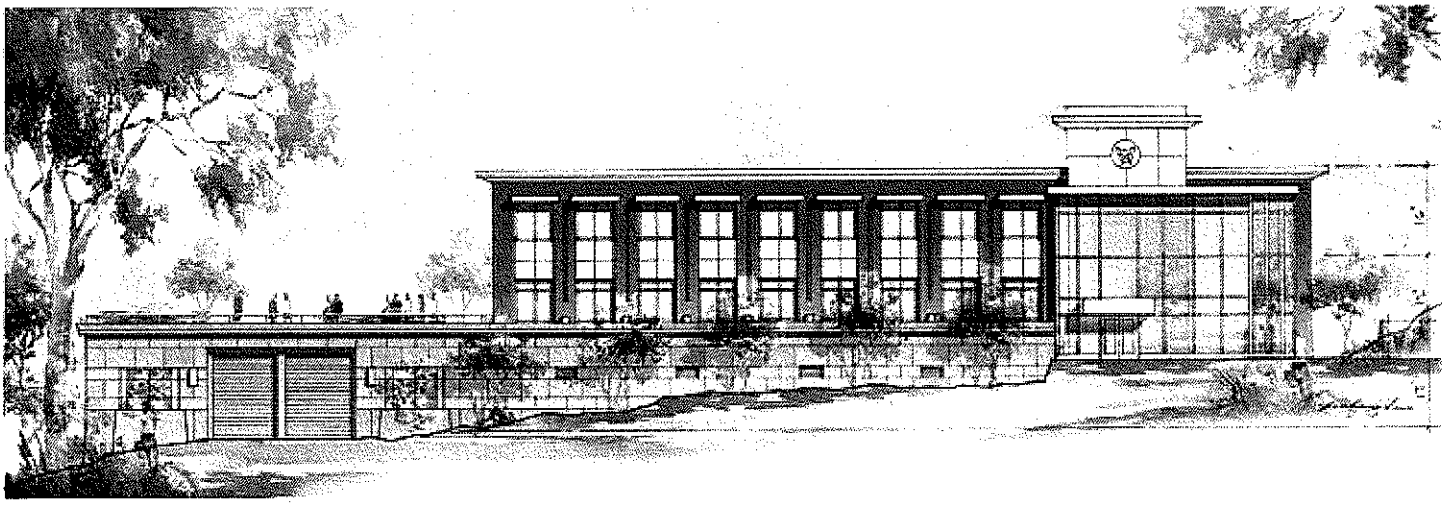
Commonwealth Technology (Emergency Operations) Center
(PA National Guard: Fort Indiantown Gap) Anville, Pennsylvania

22. YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
2006	N/A

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
PA Department of General Services	Kathy Jensenius, ESF Process Mgr.	717-772-8093

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size and cost)



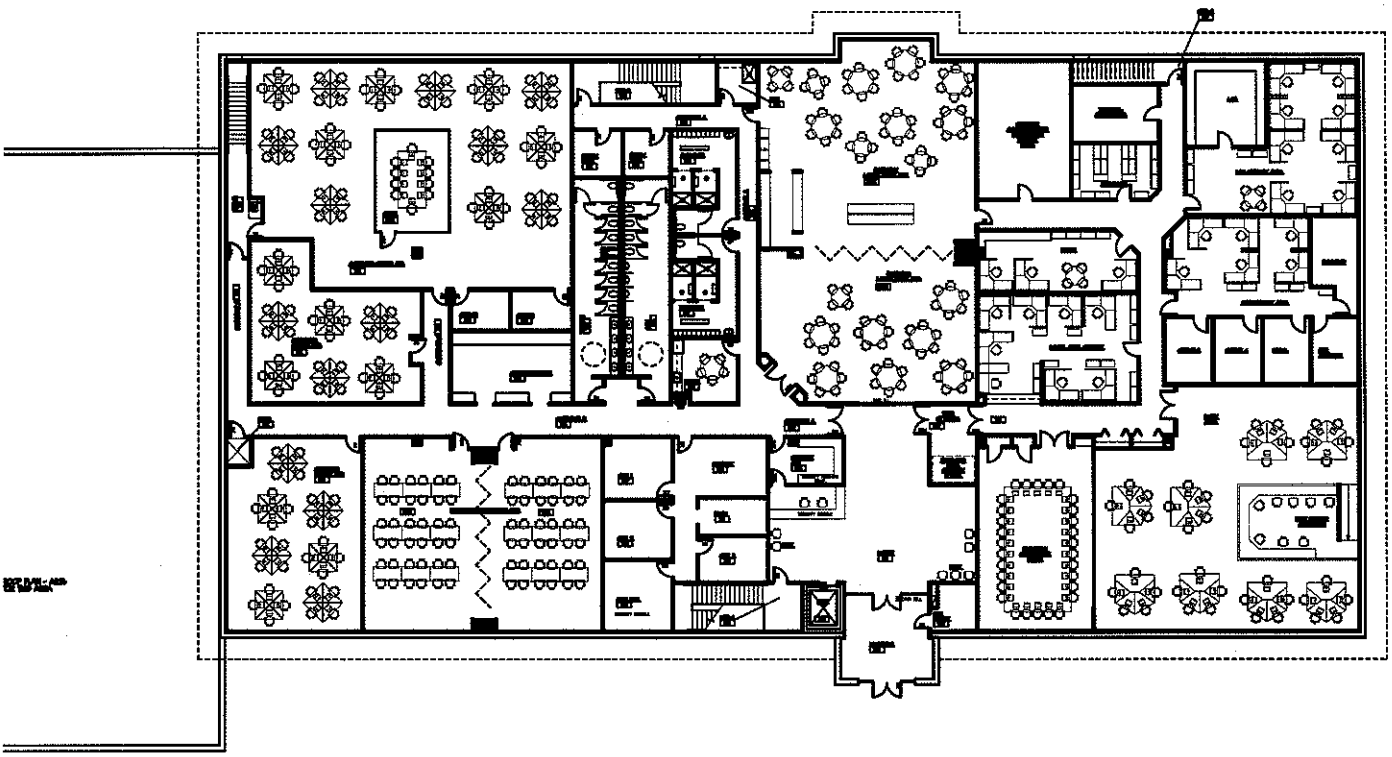
IKM was the architect of record for a new building to serve as a disaster recovery center for the Commonwealth of Pennsylvania to support data centers, as well as to provide command and control functionality. Electrical redundancy and network connectivity for the project needed to anticipate additional requirements for the Pennsylvania Emergency Management Association and Pennsylvania Homeland Security functions.

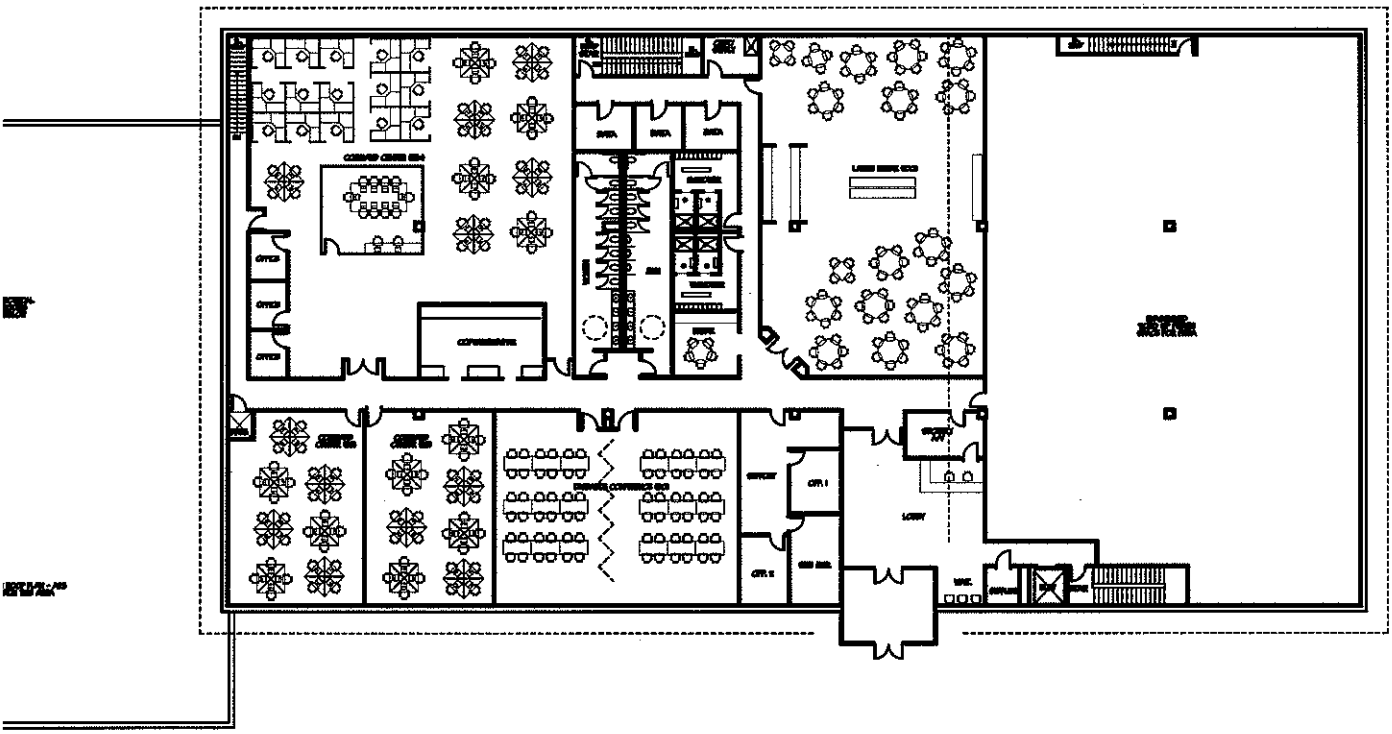
The center was to be built on the Fort Indiantown Gap military base. The building was to consist of two stories with approximately 25,000 square feet of raised floor and 25,000 square feet for command center use. The first floor was designed predominantly underground and housed the data center as well as support areas such as shipping and receiving. The second floor was designed to house the main entrance, at ground level, and accommodate general offices, command centers, cafeteria/break areas, restrooms and a conference area.

This was to be a highly secured site to include fenced-in perimeter, an access gate, video monitoring, and biometric security.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME LOCATION (City and State)	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	IKM Incorporated	Pittsburgh, PA	Architecture, Planning, Interior Design
b.	LLI Engineering	Wexford, PA	M/E/P Engineers
c.			





F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICTIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects,if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER: 2

21. TITLE AND LOCATION (City and State)

IDIQ Army Corps of Engineers, Louisville District

Various Locations Nationally

22. YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
ongoing	ongoing

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Army Corps of Engineers	Rosemary Gilbertson, PE	502-315-6503

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size and cost)

IKM Incorporated, working as a sub-consultant has been the Interior Design Firm of record to a series of Army Reserve Centers throughout the United States. As a sub consultant we work closely with the key project managers to ensure the interior design solutions reflects the architectural solution for the building type and meets the needs of the user groups, for function, aesthetics and maintenance. Some of the projects worked on include:

Fort Dix, New Jersey, US Army Corps of Engineers, Louisville, Combined Maintenance Facility

Interior Design Services for over 50,000 quare foot facility for a combined Mobilization and Training Equipment site and maintenance facility. The scope includes a classroom, consolidated bench repair, break/conference/training room, Open Plan Administration and Shop Control.

BRAC Arm Forces Reserve Center OMS UHS, Bell, CA, US Army Corps of Engineers, Louisville

Interior Design Services for a 93,000 square foot army reserve center in Bell California. The project included open-plan and private administrative offices, with 20 Commander Offices, Physical Readiness, Cafeteria and small break areas, waiting area, medical and dental offices, conference rooms, classrooms, a library, sewing room, a parachute Repair and Packing Room and a Family Readiness area.

Fort Bliss, Fort Worth Texas, Combative Aviation Brigade, US Army Corps of Engineer, Fort Worth

Interior Design Services for a Tactical Equipment Maintenance Facilities, totaling over 28,000 square feet, a Fire Brigade interior of 7,800 square feet and scope 4 which was 7800 square feet of space. This was part of a multi-build project of over 242,000 square feet. The project included administrative offices and shop control spaces, a classroom, Conference/training room, and a work bench room.

Fort Bragg, North Carolina, Vehicle Maintenance Complex, US Army Corps of Engineers, Savannah

Interior Design Services for 6 Tactical Equipment Maintenance Facilities, totaling over 140,000 square feet. The project included administrative offices (open-plan), a classroom, training/ conference room, Consolidated Bench Repair and open-plan shop control.

Fort Sill, Oklahoma, Tactical Equipment Maintenance Facility (TEMF), US Army Corps of Engineers, Tulsa

Interior Design Services for 3 new TEMF buildings totaling over 110,000 square feet. This project was designed to meet or exceed LEED Silver certification and it is to be registered by the U.S. Green Building Council. This project included private offices and open office plans, conference/training/ break (multipurpose) room, a class room and Consolidated Bench Repair.

BRAC Arm Forces Reserve Center, White Sands, New Mexico, US Army Corps of Engineers,

Interior planning and design services for a new 34,000 square foot Army Reserve Center to be located on the grounds at White Sands, New Mexico. IKM provided interior design services for 6,300 square feet of space to house administrative offices and shop control space, a classroom and multi-purpose training/ conference space.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME LOCATION (City and State)	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	IKM Incorporated	Pittsburgh, PA	Planning, Interior Design
b.	(1) FIRM NAME LOCATION (City and State)	(2) FIRM LOCATION (City and State)	(3) ROLE
c.	(1) FIRM NAME LOCATION (City and State)	(2) FIRM LOCATION (City and State)	(3) ROLE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER: 3

21. TITLE AND LOCATION *(City and State)*

Pennsylvania National Guard, Operational Maintenance Facility
Johnstown, Pennsylvania

22. YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
2004	2005

23. PROJECT OWNER'S INFORMATION

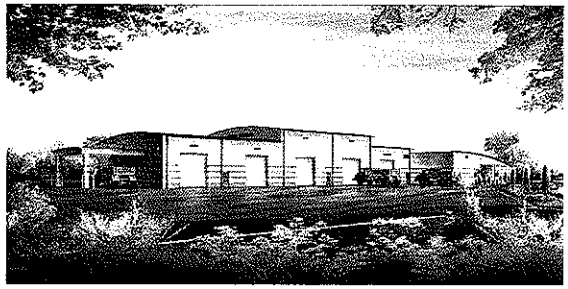
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
PA Dept. of Military Affairs Annville, Pennsylvania	Mark Austin	(717) 861-2915

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

The $4.69 million maintenance facility is designed to provide organizational maintenance support for military vehicles and equipment supported by this shop. The 12,700 sq.ft. maintenance area consists of eight (8) 36' x 36' maintenance workbays of which two (2) bays will be serviced by a 30-ton overhead crane, one (1) warm-up bay plus 7,900 sq.ft. of administrative, personnel and work areas. The eight (8) workbays are designed as drive through bays (36' x 72') to accommodate the largest equipment system supported by the facility. Four (4) of the workbays have a clear height of 20' and four (4) of the workbays have a clear height of 26'. Supporting facilities include a covered exterior wash rack, a 1,600 sq.ft. covered exterior fuel storage and dispensing system, a 1,600 sq.ft. covered fuel tanker parking area designed as a spill containment area, a 300 sq.ft. controlled waste handling facility, a 1,600 sq.ft. building for miscellaneous storage, a 300 sq.ft. flammable storage building, an 87,000 sq.ft. concrete pad for military vehicle parking (74) and POV parking (31).

The building is constructed of a steel frame, concrete masonry walls with split faced concrete masonry veneer and a curved seamed metal roofing system. Primary heating system for the workbays is an in-slab radiant piping system with hot water provided by two (2) gas-fired boilers. Utility services to each workbay includes a carbon monoxide exhaust system, compressed air hose reel, overhead power reel and 220v power outlets.

The site configuration/physical constraints had a major impact upon building placement/orientation. The site contains 13.56 acres in an irregular configuration. A 6.15 acre portion of the site is in the runway protection zone of the adjacent airport and is unbuildable. The remaining 7.41 acres is bisected diagonally by an area of wetlands leaving approximately 5 acres for development.



Relevance to Contract:

- PA National Guard Project
- New Construction
- Creative Site Utilization—including roads, parking, pavements and drainage
- Functionally well designed

Services Provided:

- Mechanical
- Electrical
- Plumbing
- Fire Protection
- Civil/Site
- Structural
- Land Surveying
- Cost Estimating

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
a.	**H. F. Lenz Company**	Johnstown, Pennsylvania	Mech./Elec./Plumbing/ Lighting /Communications/Civil/Struct. Eng
b	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER: 4

21. TITLE AND LOCATION *(City and State)*

Force, 911th Airlift Wing, Hangar Building Renovation and Addition (Under IDC), Pittsburgh International Airport, Coraopolis, Pennsylvania

22. YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
2003	2004

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
911th Airlift Wing	Bob Moeslein, Base Civil Engineer	(412) 474-8571

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Under a recent IDC with the 911th Airlift Wing, H.F. Lenz Company provided engineering services for the $1.3 million Hangar Building 129 renovation. The project included:

- New controls were provided for the overhead crane.
- Fire curtains were installed at roof trusses.
- Replaced the boiler and controls, heat exchanger and ventilation system.
- Provisions were made for the unit heaters and convectors.
- Installed a foam system in the hangar bay and a wet pipe system in the shops.
- Replaced the water heater, domestic water piping, and compressed air system.
- Installed a water meter and dryer for the compressed air system.
- An automatic fire detection system was installed in the hangar bay and shops.
- Replaced the hangar bay light fixtures and shop light fixtures.
- Replaced the emergency lighting and exit signs.
  Constructed an addition to accommodate the equipment support shop, office, women's rest room and expansion of the mechanical room for the foam system.
- The existing tool crib room was converted to the hydraulic testing room.
- The existing women's rest room and office were converted to the hydraulic/pneudraulic shop.
- Replaced concrete slab-on-grade sections in the hangar bay in the location of the aircraft jacking points; replaced the finishes and interior doors/frames in the shop area.
- Replaced the fixtures, toilet compartments accessories, showers and lockers in the men's room.
- The sliding tug door replaced with a coiling door.
- Replaced the hangar bay doors' weatherstripping seals and tail door seal.

Relevance to Contract:
- DOD Project
- Renovation and New Construction
- Fact Finding Study
- Renovations, maintenance & new construction (DOD)
- Workaround plan to maintain operation
- Hangar/administrative areas/shops

Services Provided:
- Mechanical
- Electrical
- Plumbing
- Fire Protection
- Structural
- Civil/Survey
- Cost Estimating

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
a.	**H. F. Lenz Company**	Johnstown, Pennsylvania	Mech./Elec./Plumbing/ Lighting /Communications/ Civil/Struct. Eng
b.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the Contracting Authority, or a maximum of 10 projects,if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER (1-10): 5

21. TITLE AND LOCATION (City and State)

Westinghouse Corporate Headquarters & Data Center
Cranberry Woods, Pennsylvania

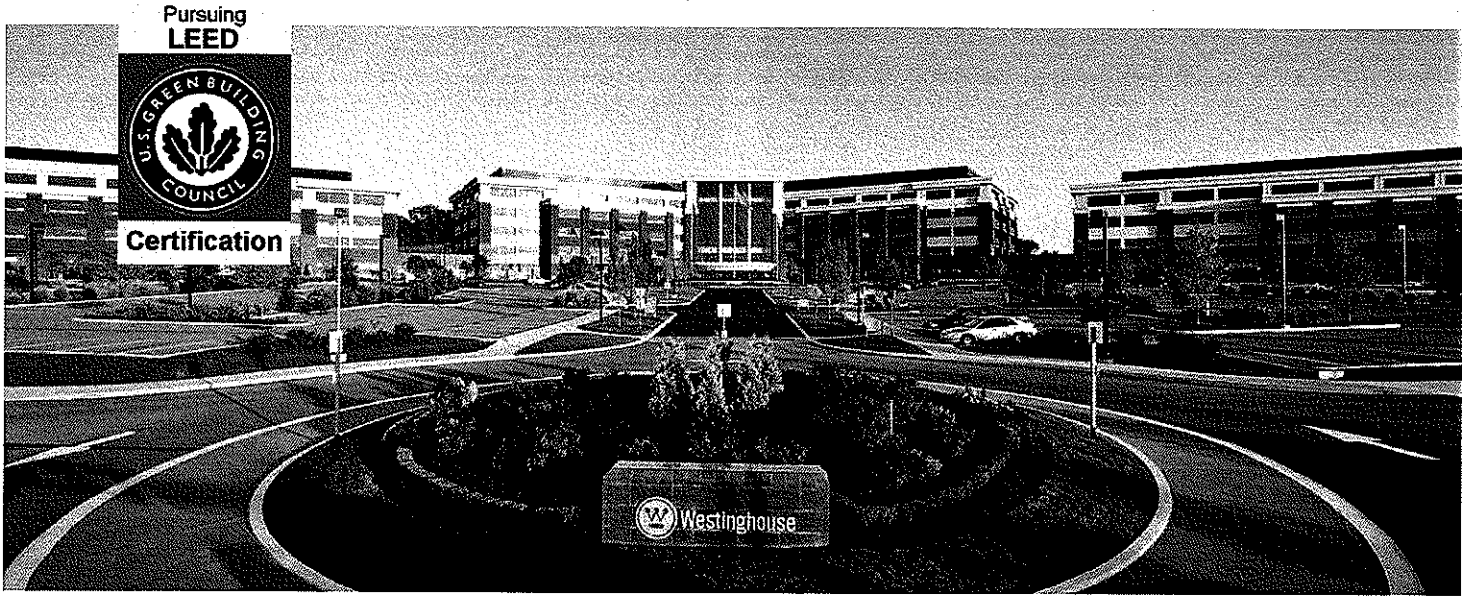
22. YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
2010	2010

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Westinghouse Electric Co.	Russell L. Bussard, Manager	412-374-4600

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size and cost)



In March of 2007, Westinghouse Electric Company chose to relocate its corporate headquarters from the Monroeville area to a new office park development north of Pittsburgh.

The project is a joint venture team with IKM and a local engineering firm, LLI, for the new corporate headquarters complex. The project is pursuing **LEED(R) Certification** with the US Green Building Council. The nearly 1 million SF campus is located in Cranberry Woods, an office park development in Butler County Pennsylvania. The three building complex will provide space for approximately 3,600 individuals. The first building will hold nearly half with 1,700 seats on floors two thru five in workstations, meeting rooms and private offices. Building 1 will also comprise other programmatic spaces including labs, fitness room, graphics and reproduction departments, cafeteria, kitchen, food court, auditoriums and private dining rooms.

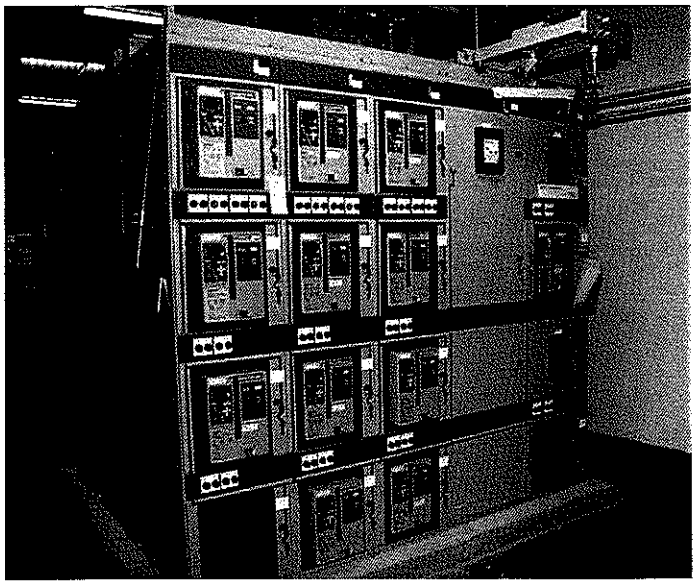
Buildings 2 and 3 will each hold just under 1,000 employees and staff divided on four floors also in workstations, meeting rooms and private offices.

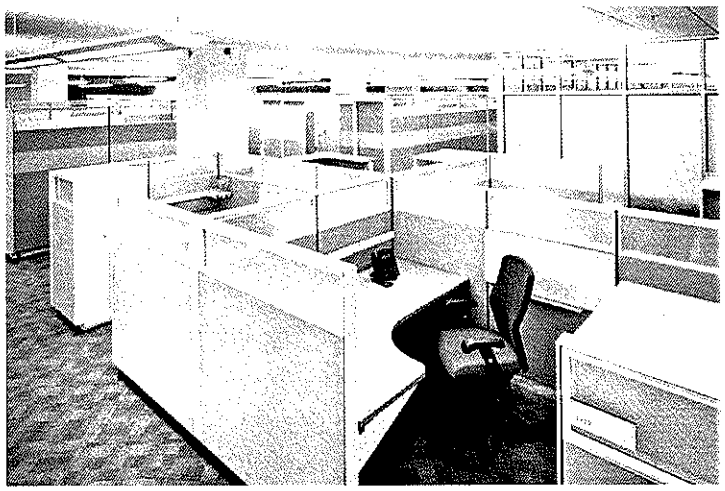
The campus is served by a dedicated 12,000 square foot data center. Its construction complies with Uptime Institute Tier II standards. Some of the features of the data center's design include:

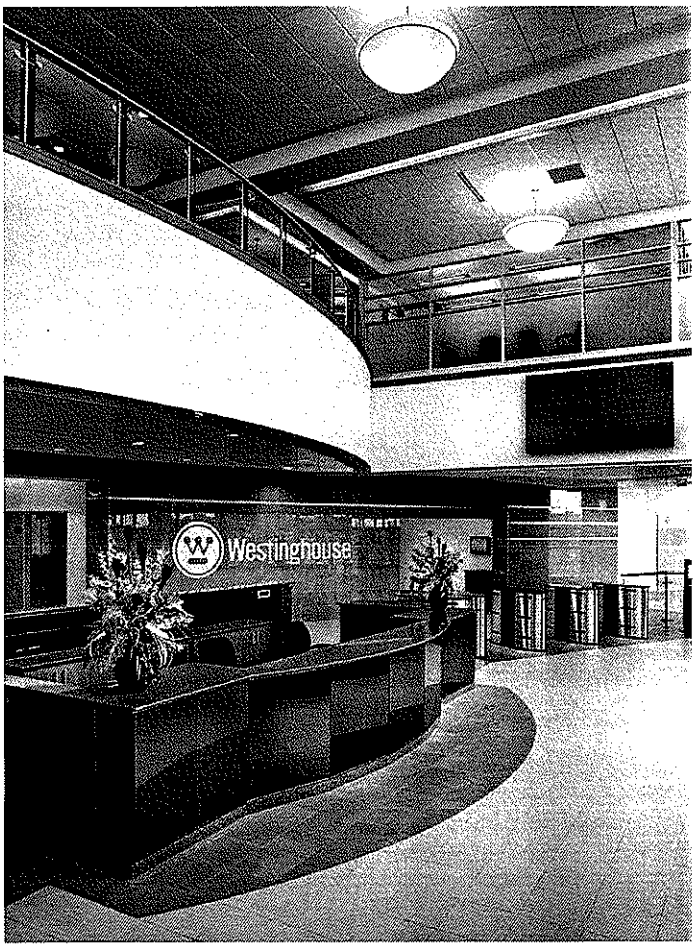
- Located below grade with concrete or cmu walls at the perimeter
- Liebert cooling units running independently of the facility HVAC system.
- Equipment racks with dual power supplies/ dual feeds A-B. Distribution of CAT VI cabling, and fiber optic cabling.
- Dual independent static UPS units with by-pass.
- Dedicated diesel powered generator with automatic transfer switch.
- FE-25 fire suppression system
- 24 inch high raised floor system
- 12 foot working clearance from raised floor to ceiling
- Work stations for 15 person support services plus manager's office.

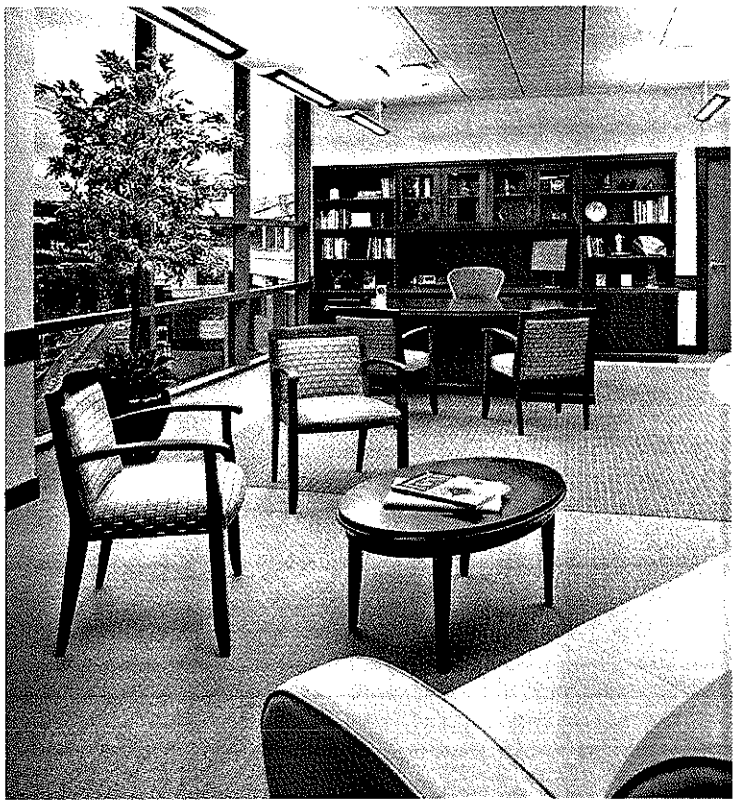
25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

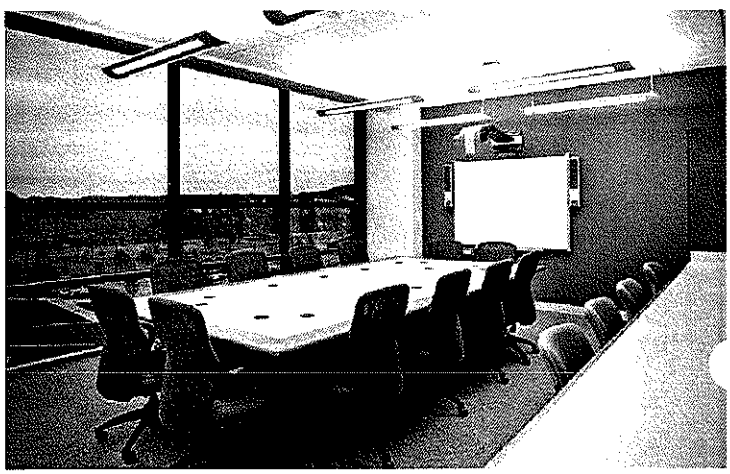
	(1) FIRM NAME LOCATION (City and State)	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	IKM Incorporated	Pittsburgh, PA	Architecture, Planning, Interior Design
b.			






Westinghouse





F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT
(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER: 6

21. TITLE AND LOCATION *(City and State)*
Ohio National Guard - Akron-Canton Regional Airport
Akron, Ohio

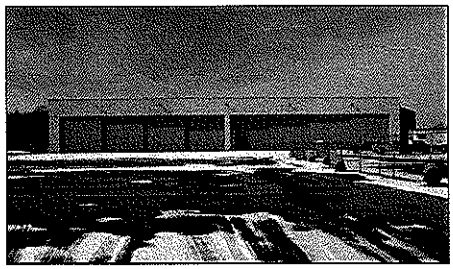
22. YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
2008	2008

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Ohio National Guard	Mr. George McCann	614/336-7413

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*



H.F. Lenz Company provided the mechanical, electrical, plumbing, fire protection, and structural engineering services for the expansion and alteration of the existing Army Aviation Support Facility (AASF) hanger. The existing hanger, originally constructed in 1986, did not have adequate capacity to house the newly assigned CH-47 helicopters at the facility. The existing facility was also not equipped with a fire suppression system. The requirements of the project included partial demolition, expansion of the foundation and floor area of the existing hangar by 11,088 sq.ft., a new fire suppression system, modifications to the existing security systems and various interior improvements. The expanded facility is now able to accommodate three CH-47 helicopters.

The project also included the design of a new 26,400 sq.ft. aircraft storage facility.

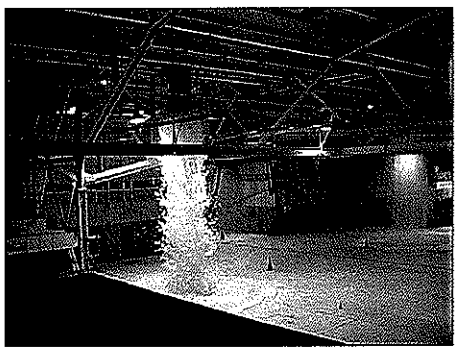
Features of the project included:

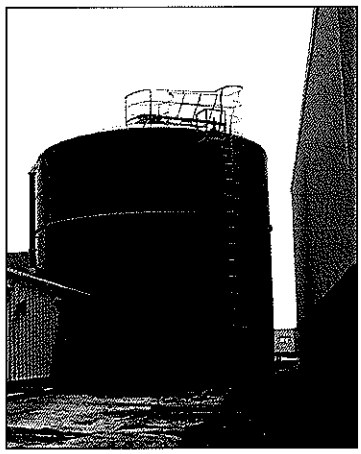
- Design of FAA lighting
- Fuel/water separator systems
- Fixed foam fire suppression systems
- Structural supports
- Tie downs

Completion date: 2008
Construction cost: $6,700,000

Relevance to Contract:
- Ohio National Guard Project
- New Construction
- Maintenance Facility

Services Provided:
- Mechanical
- Electrical
- Plumbing
- Fire Protection
- Structural
- Cost Estimating





25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
a.	**H.F. Lenz Company**	Johnstown, Pennsylvania	Mech./Elec./Plumbing/Fire Protection/Structural Eng
b.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICTIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects,if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER: 7

21. TITLE AND LOCATION (City and State)

Westinghouse Training/Office Facility

Chattanooga Tennessee

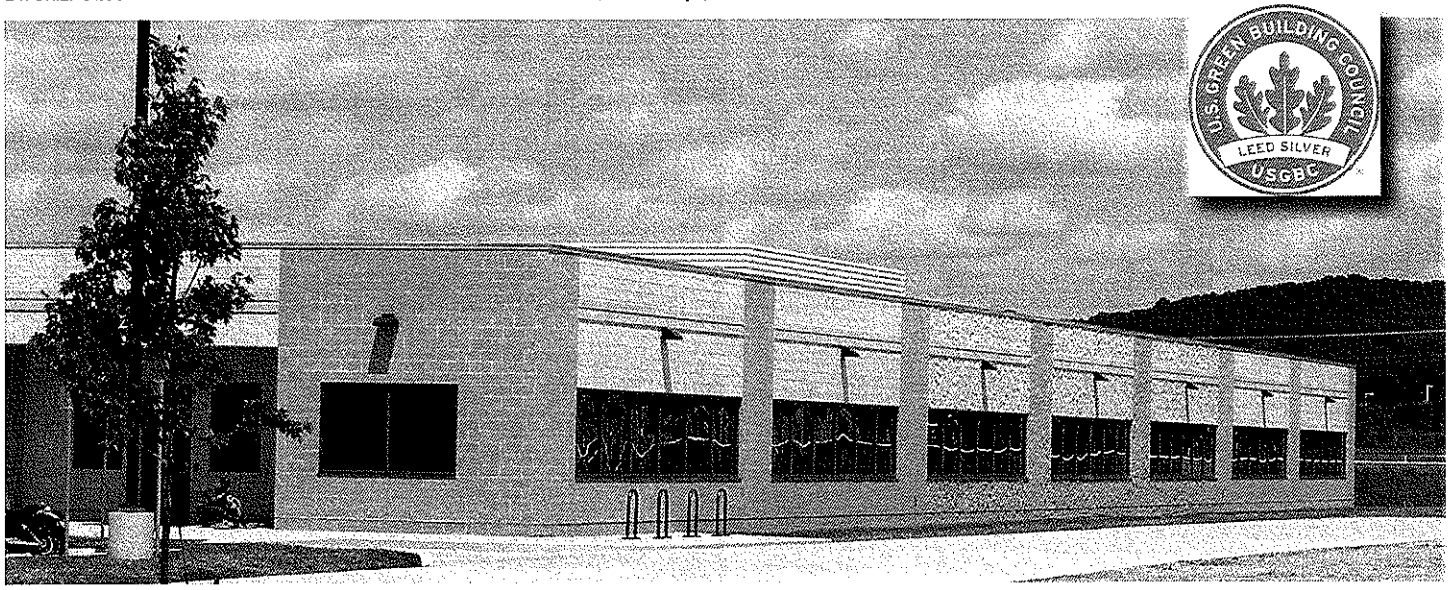
22. YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
2010	2010

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Westinghouse Electric Company	Mike Faidley, Facilities Manager	724-722-5662

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size and cost)



In 2008 Westinghouse Electric Company decided to move their training and demonstration reactor vessel facility to more spacious accommodations. They relocated to an industrial park on the banks of the Tennessee River with a 60,000 square foot high-bay shop and 5,000 square feet of attached office space and retained the IKM team for renovations to make the space meet their needs.

To accommodate their growing corps of engineers, an additional 30,000 square foot detached office building for approximately 120 staff was designed for the site.

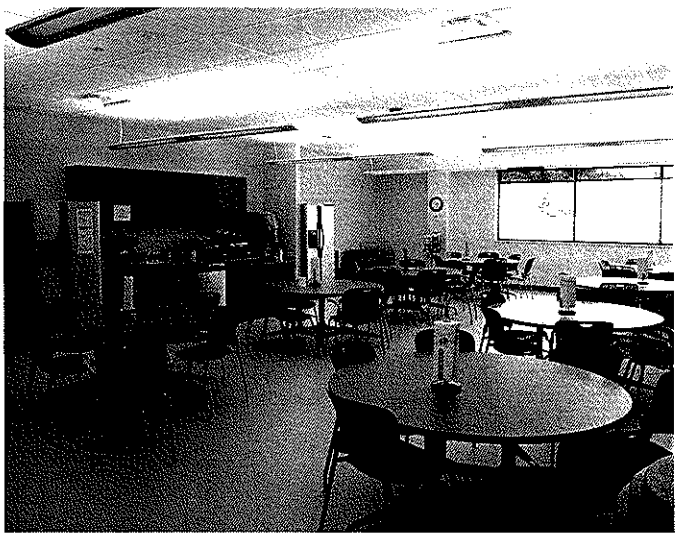
The scope of design services/work for the **High Bay area** included: Removal of old steel coil splitting equipment, repair work to heavy slab, refurbish two, 80-ton bridge cranes, new lighting, and painting. The design team oversaw excavation and forming of concrete 30-foot diameter, 100-foot deep mock reactor vessel. A 50-station welding training school was also designed as part of this project.

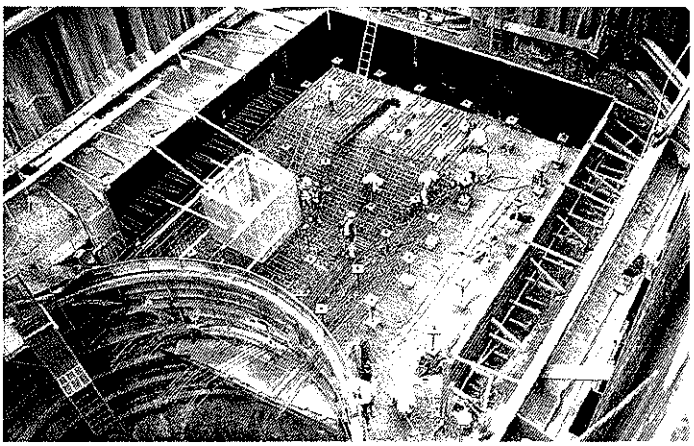
The scope of design services/work for the **Low Bay attached office space** involved: complete demolition and redesign of interior spaces including lighting and mechanical as well as new locker rooms and conference rooms.

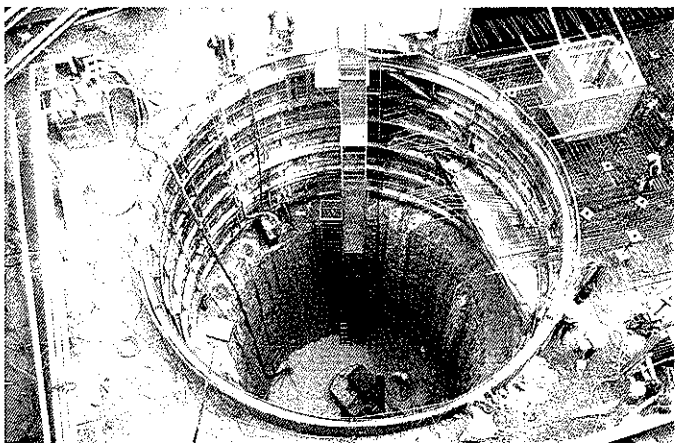
For the **New Office Building**, IKM's scope of design services/work comprised: complete architectural and engineering services including civil engineering design. The structure was to be masonry construction with maximized window/daylighting in order to capitalize on LEED points. The program and layout for the office space called for open office design with cubicles at the perimeter and selected partitioned spaces in the building core. The IKM design team understood that LEED Certification was part of scope intent from project outset. The design team exceeded expectations and LEED Silver was achieved.

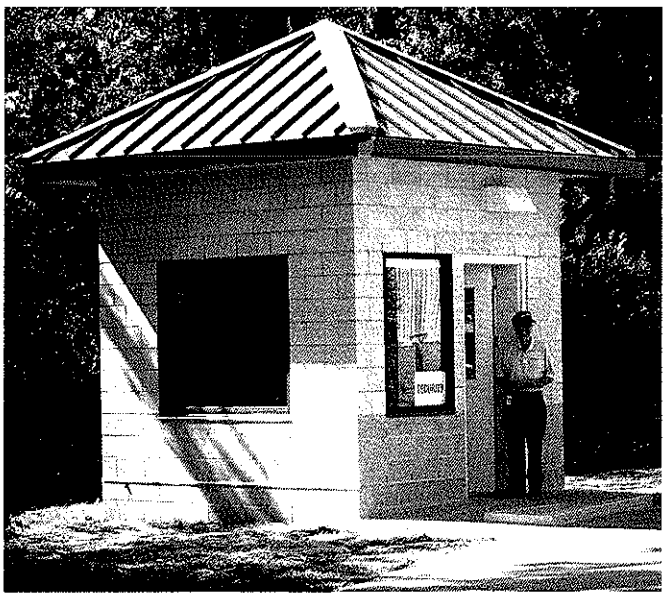
25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

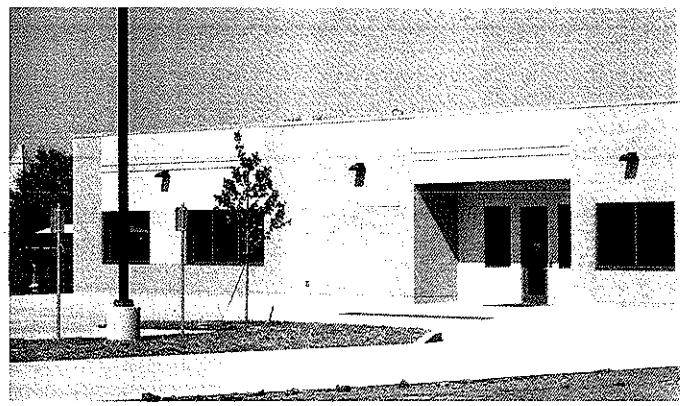
	(1) FIRM NAME LOCATION (City and State)	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	IKM Incorporated	Pittsburgh, PA	Architecture, Planning, Interior Design
b.			
c.			











F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER 8

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Indefinite Delivery Contract Letterkenny Army Depot	Ongoing	

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
U.S. Department of the Army Baltimore District	Mr. James A. Coccagna	717/267-5406

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

The H.F. Lenz Company has completed six indefinite delivery contracts for work at the Letterkenny Army Depot, all of which were renewed for the maximum option years. Our most recent contract began in 2009. Individual projects include:

Renovate Wash Bays, Building 351: New floor drains, new HVAC system, and concrete repairs

Defense Data Center, Building 3: Retrofit central chilled water plant

HVAC System Upgrade, Building 1: Replacement of existing office area HVAC system including distribution and control systems

Renovation of Central Boiler Plant (Building 2360), Ammunition Area: Interior/exterior upgrade including replacement of oil-fired boilers

Office and Warehouse Building, Building 1: Sprinkler modifications

Warehouse Building, Building 7: Renovate lighting

Missile Maintenance Facilities, Building 370: Second floor /AC upgrades

ATACMS Missile Assembly Facility, Building 3810: New sprinklers, HVAC, and lighting

Repair Building, Building 14: Architectural modifications and replacement of HVAC system

Building No. 6 Roof Evaluation: Evaluation of roof structure of a timber-constructed warehouse building which had been converted to office space

Enlarge Garage Door and Bay, Building 521: Structural modifications to existing garage bays to accommodate larger emergency vehicles

Building 521 Addition: Civil, structural, mechanical, and electrical design of a 1,400 sq.ft. addition to the Security Headquarters.

Commanding Officer's Residence, Building 505 (National Register): Window replacement and installation of ventilation and air conditioning

Facilities Engineering Building, Building 663: Renovation

Miscellaneous projects:
- Refurbish electrical system in officers club
- Public water supply permit
- Review of installation's spill contingency plan
- Evaluation of depot-wide water distribution system
- Rehabilitation of industrial waste treatment system pumping stations

Building 320:
- Vehicle maintenance area
- New vehicle wash line
- Battery storage/chemical storage building addition
- New heating and ventilation system
- Lighting and electrical system upgrades
- Renovation of office area

Building 10: Upgrade UPS system

Building 350 (500,000 sq.ft.):
- Upgrade lighting, improve HVAC systems
- Combat Vehicle Maintenance Shop - New fire alarm system
- New roof-top AHU's (12)
- Upgrade ventilation system
- Machine room improvements
- Upgrades to employee break room and locker rooms
- Lighting retrofit and upgrades
- Paint spray booth ventilation system

Building 349: Upgrade central compressed air cooling system

Building 3812: Boiler/AHU Replacement

Building 5647: AHU replacement, lighting and ductwork replacement

Building 11: Maintenance shop and break room

Building 4: Office renovations

Project Cost: ***$750,000 (Fee)***

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
a.	**H.F. Lenz Company**	Johnstown, Pennsylvania	Mech./Elec./Plumbing/Fire Protection/Structural and Civil Eng
b.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER
	9

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Naval Air Station Jacksonville (NAVFAC Southeast) P-8A tegrated Simulation/Training Center, Jacksonville, Florida	2010	

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
NAVFAC Southeast	Mr. Adam Hocutt	904-542-6112

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

This Design/Build project consists of the design and construction of a $42.5 million multi-story, 165,000 sq.ft. operational training center for a next generation Command and Control multi-mission aircraft (MMA)/P-8A. The P-8A Integrated Training/ Simulation Center will contain the most advanced state-of-the-art computational facility to support 40 instruction environments and 19 multi-million dollar simulation trainers. The facility will also house the US Navy's P-8A's program mission design command within a classified Secure Compartmented Information Facility (SCIF). The new facility will add hundreds of new jobs to the base and the Jacksonville metro area. The project incorporates best practices for sustainable design including on site storm-water retention for sanitation and irrigation.

The building is designed with a dedicated outdoor air unit for energy efficiency and energy recovery, as well as two 4,000A 480Y/277V services. The building is also equipped with a 150 kW generator to provide emergency power for the lighting, fire pump and communications loads.

The project goal is a LEED-NC Gold Rating and with the possibility of a Platinum Rating, and construction is expected to be completed in 2011.

Relevance to Contract:
- DOD Project
- New Construction
- Energy Efficient Design

Services Provided:
- Mechanical
- Electrical
- Plumbing
- Fire Protection
- Cost Estimating

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
a.	**H.F. Lenz Company**	Johnstown, Pennsylvania	Mech./Elec./Plumbing/Fire Protection Eng
b.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the Contracting Authority, or a maximum of 10 projects,if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER (1-10): 10

21. TITLE AND LOCATION (City and State)

West Virginia University Alumni Center
Morgantown, West Virginia

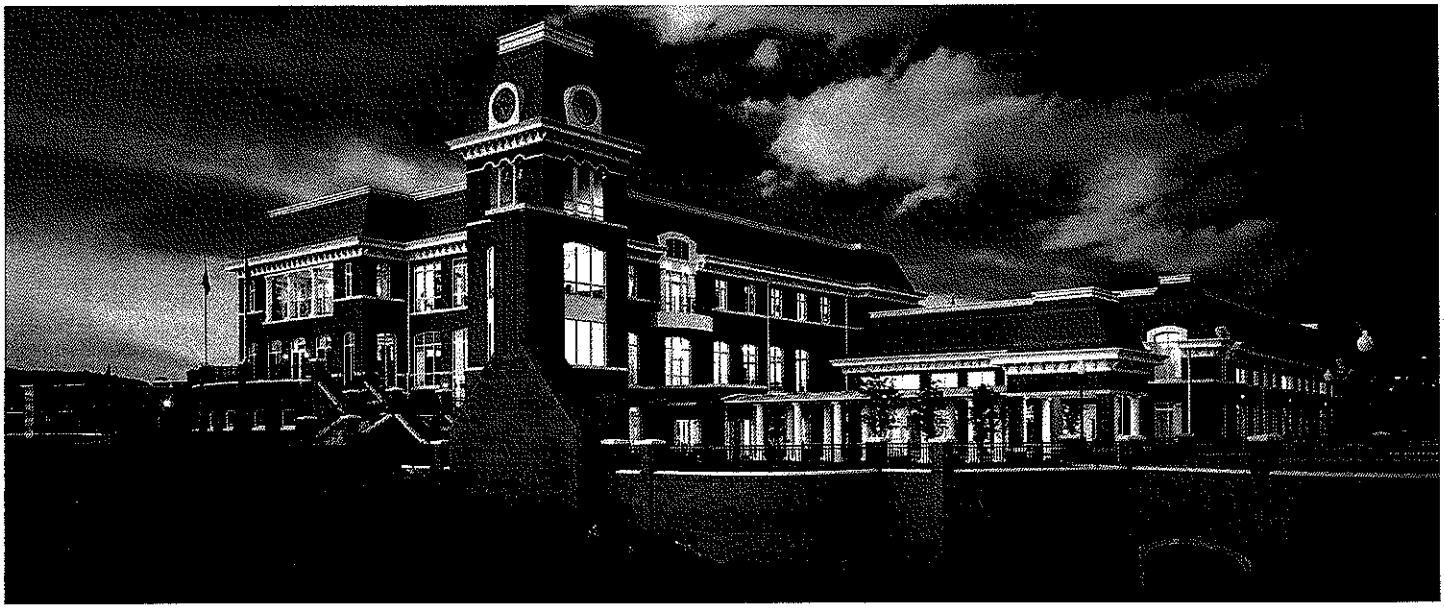
22. YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
2008	2008

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
West Virginia University Alumni Association	Steven Douglas, Executive Director	304-293-4731

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size and cost)



When the West Virginia University Alumni Association decided that it was time for a new alumni center, they understood the importance of history, tradition, and "place-making" and hired IKM Incorporated Architects to work with them to incorporate all three elements into the design. With more than 165,000 graduates worldwide and ever increasing enrollment at the University, the Alumni Association needed space to meet the growing needs of alumni, friends, and the University community.

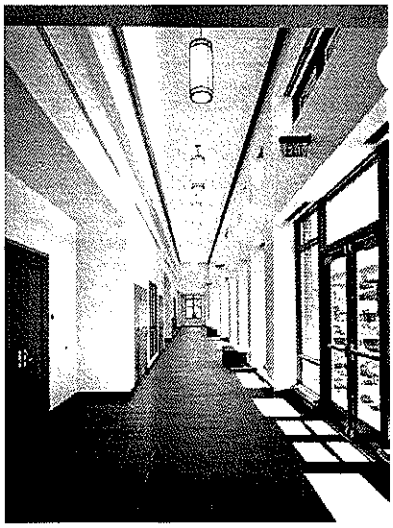
The design team was up to the challenge. IKM had a knowledge-base of data and experiences to draw upon for their ideas, having designed numerous buildings on college and university campuses, as well as conference centers, banquet facilities, offices, meeting rooms and kitchen facilities.

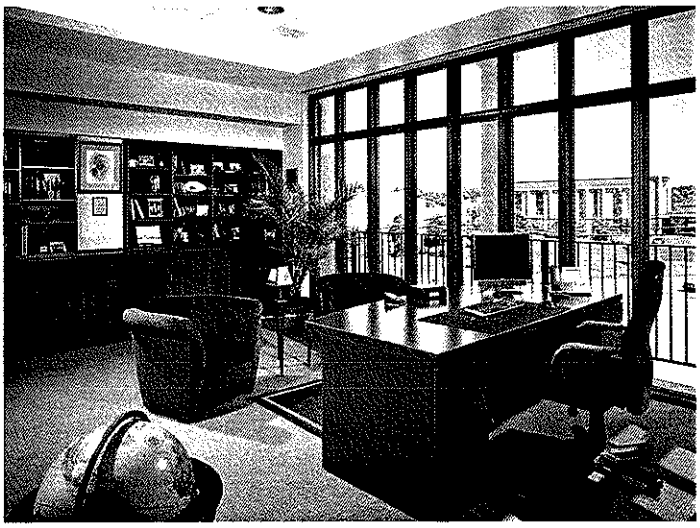
Two months of intensive effort culminated in a comprehensive program and schematic design. The design team engaged Alumni Association board members and staff in a collaborative, participatory process. In addition, the design team and task force made benchmark visits to recently constructed alumni centers to learn from other universities' recent experiences.

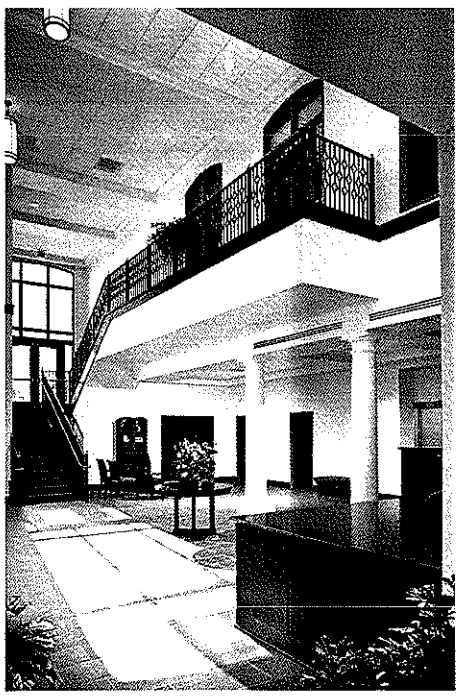
The 44,000 square foot, $12 million project is an iconic facility located less than 400 yards from the Milan Puskar football stadium, on the Evansdale Campus easily supporting indoor and outdoor activities. As alumni and visitors approach the new center they are drawn to the landmark bell tower evocative of Woodburn Hall on the West Virginia University main campus. The interior is organized in two wings: an Alumni House and a Great Hall and features pre-event spaces, a large banquet hall, a full-service kitchen, a club room and multiple meeting rooms.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME LOCATION (City and State)	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	IKM Incorporated	Pittsburgh, PA	Architecture, Planning, Interior Design
b.			
c.			







G. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS

26. NAMES OF KEY PERSONNEL (From Section E, Block 12)	27. ROLE IN THIS CONTRACT (From Section E, Block 13)	28. EXAMPLE PROJECTS LISTED IN SECTION F (Fill in "Example Projects Key" section below before completing table. Place "X" under project key number for participation in same or similar role.)									
		1	2	3	4	5	6	7	8	9	10
Joel R. Bernard, AIA, LEED AP	Principal in Charge	X				X		X			
Jonathan Lusin, AIA, LEED AP	Project Manager					X		X			
Rebecca Sciallo	Interior Designer		X								X
Thomas F. Deter, PE, LEED AP	Engineering Principal in Charge			X	X		X		X		
John C. Stewart, PE, LEED AP	Lead Mechanical Engineer			X	X		X		X		
Steven P. Mulhollen, PE	Lead Electrical Engineer			X	X		X		X		
Gregory D. Rummel, CPD	Lead Plumbing/Fire Protection Designer			X	X		X		X		
James C. Kohler, PE	Lead Civil Engineer			X	X				X		
David A. Blackner, PE	Lead Structural Engineer				X				X		
Gregory Facciani, PLS	Project Surveyor			X	X				X		

29. EXAMPLE PROJECTS KEY

NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)	NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)
1	Commonwealth Technology Center	6	Ohio National Guard
2	IDIQ Army Corps of Engineers, Louisville	7	Westinghouse Training/Office Facility
3	PA National Guard	8	IDIQ Letterkenney
4	911th Airlift Wing	9	NAVFAC
5	Westinghouse Corporate Headquarters & Data Center	10	West Virginia University Alumni Center

H. ADDITIONAL INFORMATION

30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS NEEDED.

IKM Firm Overview

ARCHITECTS INTERIOR DESIGNERS PLANNERS

IKM Incorporated is a planning, architectural and interior design firm that has been in continuous practice since 1911. Throughout the history of the firm, IKM has completed many projects for healthcare and educational institutions, government, commercial clients, and research and development clients. Our projects have included education and conference centers, assembly spaces, specialized training areas, administrative offices, and research and support facilities.

Over this long history, the firm has been responsible for such notable projects as International Brotherhood of Electrical Workers Headquarters and Training facility, Conference Centers for West Penn, Allegheny General and Shadyside Hospitals, and new academic buildings for Penn State, Slippery Rock and Lock Haven Universities. Other past college and university work includes projects for Carnegie Mellon University, the University of Pittsburgh, and West Virginia University.

We have completed a number of projects for the Pennsylvania Department of General Services (DGS) and the Department of Veterans Affairs (VA) and the US Army Corps of Engineers for the Department of Defense (DoD). These include planning, design and interior design of housing, healthcare, education and training centers. The Commonwealth Technology Center and the Allied Health Building for Lock Haven University are two examples of our current DGS work. Our VA work includes the Southwestern Pennsylvania Veterans Center and the Delaware Valley Veterans Home; and, most recently renovations at the Veterans Administration University Drive Campus in Pittsburgh that include a new Data Center and Emergency Care Center.

Since our inception, we have enjoyed a reputation for excellence in architectural design and outstanding service to our many clients. Rather than simply completing commissions, we concentrate on building lasting relationships. We respect the fact that each client's needs and objectives are specific to their field of endeavor, and it is our mission to apply our knowledge-base and experience gained on a variety of projects to an Owner's particular needs thereby enhancing efficiency, functionality and design.

IKM Experience with US Army Corps of Engineers

Images reflective of the types of spaces designed for these projects; not the actual projects listed herein.

IKM Incorporated, working as a sub-consultant has been the Interior Design Firm of record to a series of Army Reserve Centers throughout the United States. As a sub consultant we work closely with the key design team project managers to ensure the interior design solutions reflects the architectural solution for the building type and meets the needs of the user groups, for function, aesthetics and maintenance. Some of the projects worked on include:

Fort Dix, New Jersey, US Army Corps of Engineers, Louisville, Combined Maintenance Facility

Interior Design Services for over 50,000 square foot facility for a combined Mobilization and Training Equipment site and maintenance facility. Provided finish selections, finish plans, SID Binders, Furniture Selection, plans and specifications. Specifications were submitted on access program at 50% and of the Corps websites at 100%. The scope includes a classroom, consolidated bench repair, break/conference/training room, Open Plan Administration and Shop Control.

BRAC Arm Forces Reserve Center OMS UHS, Bell, CA, US Army Corps of Engineers, Louisville

Interior Design Services for a 93,000 square foot army reserve center in Bell California. The scope of work included finish selections and a "Creative Finish Design", finish specifications, Plans, detailed floor patterns, SID and CID Binders. Selected furniture and fabrics according to the Army Standards, and provided web site specifications. The project included open-plan and private administrative offices, with 20 Commander Offices, Physical Readiness, Cafeteria and small break areas, waiting area, medical and dental offices, conference rooms, classrooms, a library, sewing room, a parachute Repair and Packing Room and a Family Readiness area.

Fort Bliss, Fort Worth Texas, Combative Aviation Brigade, US Army Corps of Engineer, Fort Worth

Interior Design Services for a Tactical Equipment Maintenance Facilities, totaling over 28,000 square feet, a Fire Brigade interior of 7,800 square feet and scope 4 which was 7800 square feet of space. The scope of the project included finish selections, creation of finish plans and specifications, SID and CID Binders, and furniture selection specifications. This was part of a multi-build project of over 242,000 square feet. The project included administrative offices and shop control spaces, a classroom, Conference/training room, and a work bench room.

Fort Bragg, North Carolina, Vehicle Maintenance Complex, US Army Corps of Engineers, Savannah

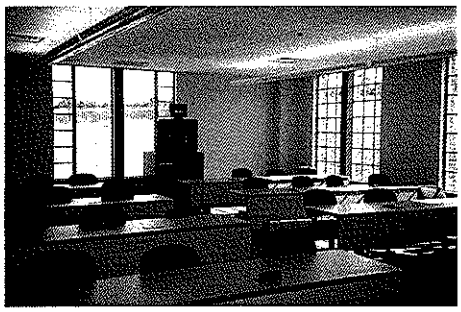
Interior Design Services for 6 Tactical Equipment Maintenance Facilities, totaling over 140,000 square feet. The scope of work included Finish selections, creation of floor patterns, finish plans and specifications, 16 sets of SID binders, furniture selection specifications and 8 CID Binders, and furniture selection specifications. The project included administrative offices (open-plan), a classroom, training/ conference room, Consolidated Bench Repair and open-plan shop control.

H. ADDITIONAL INFORMATION

30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS NEEDED.

Fort Sill, Oklahoma, Tactical Equipment Maintenance Facility (TEMF), US Army Corps of Engineers, Tulsa

Interior Design Services for 3 new TEMF buildings totaling over 110,000 square feet. The scope of work included finish selections, floor patterns, finish plans, specifications, furniture selections specifications SID and CID binders. This project was designed to meet or exceed LEED Silver certification and it is to be registered by the U.S. Green Building Council. This project included private offices and open office plans, conference/training/ break (multipurpose) room, a classroom and Consolidated Bench Repair.



BRAC Arm Forces Reserve Center, White Sands, New Mexico, US Army Corps of Engineers,

Interior planning and design services for a new 34,000 square foot Army Reserve Center to be located on the grounds at White Sands, New Mexico. IKM provided interior design services for 6,300 square feet of space to house administrative offices and shop control space, a classroom and multi-purpose training/ conference space.

30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS NEEDED.

Project Management Plan-Collaborative Discovery Process

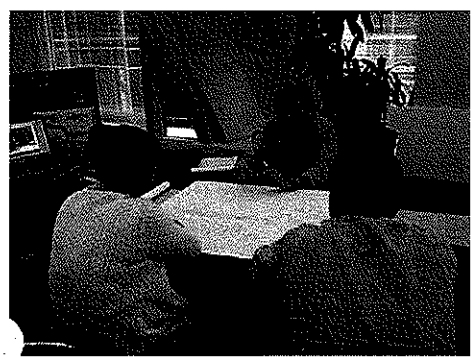
The process we propose is an interactive one, we work with the client, the user groups and the stakeholders to create a project that satisfies the goals and objectives outlined in the RFP or project scope definition. We will explore issues relevant to the project such as the traffic patterns, connectivity, ADA issues, your service delivery model, your mission statement as well as many other topics may be discussed during this collaborative discovery process.

Concept Phase

We propose convening all the stakeholders in 'charette' workshops during the Concept Phase. Simply put, the goal of a Charette process is to build on strengths, eliminate weaknesses and create a compelling concept and vision for this project. The most successful charettes, we have found, follow a simple three-step process of: (1) Understanding; (2) Exploring; and (3) Deciding.

These three steps require the participation of "stakeholders" if the process is to achieve a successful building and meet the institution's long-term goals. We believe your stakeholders include faculty, administrators, physicians, students and staff.

In the first step—Understanding—the design team seeks to learn everything it can about the site, the programs, and the context. In effect, the goal is to create a balance sheet of strengths and weaknesses for each of the above issues and at the same time to identify the goals and design principles that should guide the design process. Some of the information that the charette team analyzes is objective or "hard" data (base maps, past master plans, existing conditions, square footage requirements, base-line environmental practices, energy use, etc.); some is subjective or "soft" data collected from stakeholders (perceptions, hopes, fears, goals, etc.). All of the information will be used to further a more complete understanding of each of the major issues.



In the next step—Exploring—the design team creates alternative "solutions" based on the information that has been gathered and analyzed. These solutions address not only the design of physical space, but also the design of the experience within that space. Design alternatives are reviewed with stakeholders and compared. Comparison with "benchmark" facilities researched by the design team could be brought into play at this point if the team feels that this would facilitate honing in on the most appropriate solution. Each option is evaluated for strengths and weaknesses based on the agreed goals and design principles. The first two steps in the charette process are rarely linear or consecutive. As "exploring," continues, "understanding" increases, which in turn informs further exploration.

In a master planning process, the design alternatives are accompanied by opinions of probable cost. These opinions are not as detailed as more formal third-party cost estimates, however, these estimates allow the client and core team to make informed decisions on moving the project forward in a specific direction.

The last step is "Deciding." Based on the evaluation of alternatives by stakeholders, the design team prepares a "final draft" concept plan and program for discussion and review. This plan, crafted to reflect the consensus input of stakeholders, becomes the basis for further development of the schematic design.

H. ADDITIONAL INFORMATION

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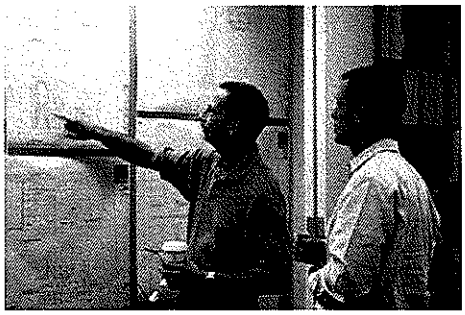
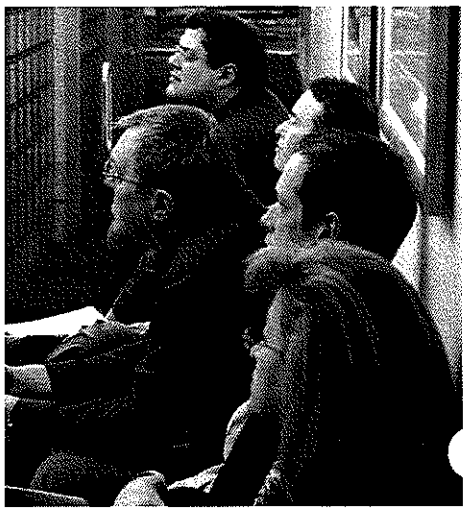
For a physical building project the process proceeds as follows:



Schematic Design Phase

After approval of the Conceptual Design by the client, the project moves into the Schematic design which will elaborate upon the concept and begin to design plans and elevations consistent with that concept. Typically, we propose that the client organize end-user groups (depending on the size of the client and key stakeholders) and that we establish a weekly or bi-weekly meeting schedule where these user groups are met individually. We have found that this creates an investment mentality in the end user and establishes the framework for conducive, constructive dialog where the best design emerges.



At the conclusion of that series of meetings, we recommend holding a 'core team' meeting. This core team is a group of persons, preferably 4-6, that are empowered as decision makers and arbiters of conflicting request or directions. At that core team meeting they are updated as to the progress of design, the end user group meetings and outstanding issues. We will provide a cost estimate at the end of this phase.

Design Development

Once the Schematic Design is approved by the client, Design Development begins. We propose continuing the end user and core team meetings. The primary purpose of design development is to define and describe all-important aspects of the project.

The design: planning layouts, exterior designs and system designs are refined and begin the coordination process. With the end user continuously engaged the continuity of the concept will have advocates who will hold the design accountable. We will provide a cost estimate and a Redi-Check quality control review at the end of this phase.

Construction Documents

As the final phase of the design phase begins, after approval of the design development by the client, we propose a less frequent meeting schedule with the end users and core team. This phase is focused on documenting and detailing all the decisions that have been previously made, coordinating disciplines and establishing a completed biddable set of documents. Some end-user and core team meetings will be required as update meetings. We have found that this continues the spirit of cooperation that has been fostered throughout the process and is an outward expression of the respect that the design professional has for this team approach of design and problem solving. We will provide a Redi-check quality control review and a final cost estimate prior to bidding.

Bidding and Negotiation

The IKM team will provide a complete set of drawings and specification in order to obtain accurate and competitive bid proposals from the contractors. We will work with the client to review all bids and assist in awarding and preparing contracts for construction.

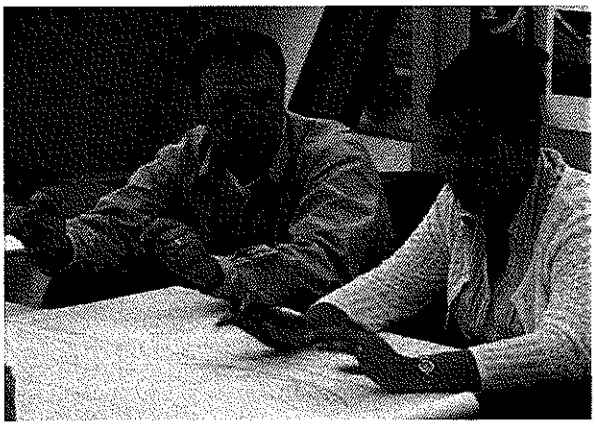
Construction Phase Services

We view the construction phase as an important part of the process and we take our job seriously in representing our clients interests during construction. We will be on campus on a regular basis for construction meetings and reviews and we will be available for RFI's throughout construction schedule. We will review the project to ensure the project is being built as designed and specified in the drawings.

Quality Policy

The guiding principles for the Quality Management Plan (QMP) are rooted in a Quality Policy that has these essential elements.

- Client Satisfaction Comes First - While accuracy of construction documents is essential, quality is more than just that. A quality project is one that meets the Client's needs and allows the Client to carry on its mission in a most effective manner.
- Prevention vs. Correction - Quality is not added on to the end of a project. It is built in.
- Quality is Foremost a Management Responsibility - Success requires the participation of all members of a team, but it remains the responsibility of management to provide the guidance and the resources needed to succeed.



Quality Process and Quality Control Procedures

Our Quality Process involves these three elements:

- Quality Planning - In the planning stage, we identify clients' program requirements, determine which quality standards apply, and determine what will be done to satisfy these program requirements.

- Quality Assurance - In this effort, we make sure that the right technical staff are committed to each task order, and ensure that the quality control efforts are taking place. We verify that these efforts are producing the desired results, and we make adjustments to the processes as necessary.

- Quality Control - In this effort we perform inspection by design professionals not directly involved in the production of the documents directly on the product itself to determine that it meets the requirements developed in the quality planning stage. We also identify ways to eliminate causes of unsatisfactory results such as change orders created by errors and omissions.

Quality Planning is done up front. Quality Assurance and Quality Control are continuous throughout the life of the project.

Quality Control Procedures for Plans, Specifications, and Design Analysis

Our procedures consist of the following steps that are performed at specified milestones (15%, 30%, 60% and 100%)and submissions:

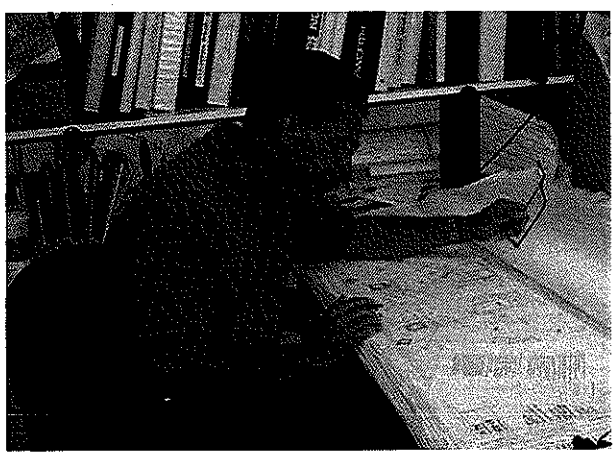
- Individual discipline technical check. Each discipline checks drawings, specifications, and design calculations for accuracy, using non-design team members.
- Independent Team Review.
- Check against design criteria and submittal requirements.
- Inter-discipline coordination reviews.
- Constructability review.
- Review for conformance with budget.

IKM has developed the following comprehensive checklist to facilitate a complete and thorough review of the dveloping documents

Quality Control Procedures for Electronic Documents

All electronic documents and files (meeting minutes, transmittals, drawings, etc.) for all projects are stored on our project server using a pre-established file structure directory. All team members are familiar with this process that allows for organized and quick access and retrieval of information.

All submissions are also saved on CD's so that an accurate record of the project is kept. When appropriate, electronic files are provided in .pdf format so they cannot be altered. IKM is experienced with electronic bidding format procedures and providing .pdf and .cal files for bidding purposes. As an additional quality control procedure, we plot and review the .cal files we create to be sure that the conversions match the CAD file plots.



IKM QUALITY CONTROL CHECKLIST – FEBRUARY 2009 EDITION

PROJECT TITLE:_____

IKM PROJECT NO.:_____ REVIEW %_____

SUBMITTAL DATE:_____ REVIEW DATE:_____

PROJECT MANAGER_____

Note: All percentages to the right of each checklist item indicate the latest production stage at which the item should be incorporated into the set of documents and coordinated with specifications and other disciplines.

		PM	Coordinated			
		Rev	Yes	No	N/A	%
1.	**Cover Sheet/ Drawing Index**					
	a. Project Title matches individual drawing title blocks.					15
	b. IKM and Consultant information provided (including contacts and phone numbers)					15
	c. Index grid issue dates are accurate and coordinated with project phase and drawing dates.					30
	d. Index drawing numbers and titles match actual individual drawing title block information (all disciplines).					60
	e. Drawings listed in the index have been included in the set.					15
	f. Site location Map.					15
2.	**Civil / Site Plans (where applicable) – Verify that:**					
	a. New underground utilities (power, telephone, water, sewer, gas storm drainage, fuel lines, grease traps, fuel tanks) have no interferences.					30
	b. Existing power/telephone poles, pole guys, street signs, drainage inlets, valve boxes, manhole covers, etc., do not interfere with the new driveways, sidewalks, or other site improvements.					60
	c. Limits of construction, clearing, grading, sodding, grass or mulch are shown and are consistent in other disciplines.					60
	d. The locations of flag poles, dumpster pads, generator pads, transformers, cooling towers, and vaults have been coordinated with other discipline site plans.					60
	e. Profile sheets show other underground utilities and avoid conflicts.					60
	f. Horizontal distances between drainage structures and manholes match scaled dimensions on both plan and profile sheets.					60
	g. Building footprint and finished floor elevations match other disciplines.					60
	h. Civil drawings are consistent with Landscape drawings.					30
3.	**General Information Sheet (Typically Sheet No. A0GN):**					
	a. Standard and/or project specific legend & keys provided.					15
	b. Standard IKM General Notes are provided (edited as required for this project).					15

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		PM	Coordinated			
		Rev	Yes	No	N/A	%
	c. Applicable code compliance information provided including Construction Type and Occupancy Classification.					30
	d. Fire resistance rating and/or fireproofing schedule provided.					30
	e. Partition Types are provided and properly detailed and noted (include UL numbers as required).					30
4	**Life Safety Plans (A0.1 series drawings)**					
	a. Plans clearly indicate scope of work and project area					60
	b. Plans clearly indicate exits, egress routes and fire and smoke resistance rated partitions.					60
	c. Rated partitions to be coordinated with floor plans and door & frame assembly ratings					60
	d. Plan Legend with smoke/fire ratings.					60
5	**Demolition Plans (A1 series drawings)**					
	a. Plans clearly incate scope and project limit lines.					30
	b. Standard IKM general demolition notes are provided (edited as required for this project).					30
	c. Keyed demolition notes are provided and properly keyed to plans.					60
	d. Provide legend to demolition symbols and graphics					30
	e. Coordinate demolition work shown and noted with demolition work shown by other disciplines					60
	f. Note any salvaged material to be turned over to the Owner					60
6	**Architectural Floor Plans (A2 series drawings)**					
	a. Coordinate with all other plans (i.e., reflected ceiling plans, finish plans, etc.) as well as plans from other disciplines. Verify that all disciplines are using the same background.					15
	b. Column grid, column locations and dimensions match structural plans.					15
	c. Plans are properly dimensioned. Overall exterior walls and openings are dimensioned and tied to column lines. Interior partitions and features are dimensioned and tied to existing elements or the structural grid where applicable.					30
	d. Partition types are identified and keyed to appropriate details. Graphically differentiate between existing and new partitions.					30
	e. Spaces are labeled, numbers, and coordinated with the Room Finish Schedule.					30
	f. Doors are numbered and coordinated with the associated room number and the Door and Hardware Schedule.					30
	g. Graphically indicate fire and smoke rated partitions. Verify that door and frame assemblies are coordinated with rated partitioning. Coordinate rated partitions with HVAC fire and smoke damper locations.					30

IKM QUALITY CONTROL CHECKLIST – FEBRUARY 2009 EDITION

		PM	Coordinated			
		Rev	Yes	No	N/A	%
	h. Verify that the keying of enlarged plans are complete and accurate.					30
	i. Expansion joints are noted and coordinated with structural drawings and keyed to any appropriate details where applicable.					30
	j. Verify that the keying of interior elevations is complete and accurate. Interior elevations should be keyed to enlarged plans if provided.					60
	k. Provide detailed notes as required to clarify intent of work or to identify equipment or furnishing. Key notes to floor plan.					60
	l. Show and note all recessed equipment, accessories or electrical panels and coordinate requirements with partition types and/or existing wall conditions. Verify that recessed devices do not interfere with fire or smoke rating requirements.					60
	m. Provide reference to separate furniture, fixture and equipment (FF&E) drawings where applicable – OR – show and note this information on the floor plans along with a detailed Equipment Schedule. The schedule should indicate any Owner furnished materials.					60
	n. Coordinate location, types, and quantities of plumbing fixtures with the Plumbing Drawings. Coordinate medical gas piping requirements with the wall conditions and types.					30
	o. Key exterior building elevations.					30
7	**Exterior Elevations and Building Sections (A3 Series Drawings)**					
	a. Coordinate building elevations with the floor plans. Check window, door, and louver openings. Indicate finished floor elevations and floor to floor dimensions. Coordinate with structural drawings.					30
	b. Key all appropriate building sections, wall sections or details.					30
	c. Key windows to a glazing schedule or to appropriate details.					60
	d. Note all exterior materials and features on elevations.					60
	e. Coordinate building sections with plans and elevations.					30
	f. Building sections to indicate floor to floor dimensions and finished floor elevations.					30
	g. Indicate room names and numbers coordinated with plans.					60
	h. Indicate control joints and key CJ details.					60
8	**Enlarged Plans (A4 Series Drawings)**					
	a. Verify that background matches small scale plans and that room names, room numbers, and door numbers all match.					30
	b. Cross reference enlarged plans to small scale plan with appropriate room name and number.					60
	c. Key interior elevations					60

IKM QUALITY CONTROL CHECKLIST – FEBRUARY 2009 EDITION

9	**Interior Elevations (A5 Series Drawings)**					
	a. Coordinate with floor plans.					30
	b. Provide vertical dimensions and/or mounting heights for all casework, millwork, equipment, and accessories. Indicate all electrical, phone and data devices as well as medical gas outlets where applicable. Coordinate with MEP drawings.					60
	c. Coordinate ceiling heights and bulkheads with reflected ceiling plans.					30
	d. Key casework/millwork elevations to appropriate details.					60
	e. Note all finish materials, equipment, and furnishings. Note and key cornerguards, bumper rails, handrails, etc., to details.					60
10.	**Reflected Ceiling Plan (A6 Series Drawings)**					
	a. Coordinate with floor plans and finish plans.					30
	b. Indicate ceiling materials (graphically) and ceiling heights.					30
	c. Indicate all lighting fixtures, electrical devices, HVAC devices and sprinkler heads. Coordinate with MEP drawings.					60
	d. Special ceiling features (i.e., Bulkheads, light coves, light fixture patterns, etc.) to be noted and dimensioned or keyed to details where applicable.					60
	e. Provide a legend listing all ceiling devices and materials.					15
	f. Notes any requirements for special structural support for equipment or fixtures.					30
11.	**Enlarged Stair/Elevator Plans and Sections (A7 SeriesDrawings)**					
	a. Coordinate with other floor plans.					15
	b. Review dimensions (treads, risers, and clearances). Coordinate floor to floor dimension with plans / bldg. sections.					30
	c. Check guardrails and handrails for conformance to code requirements (dimension, diameter, clearances, extensions).					30
	d. Coordinate with structural steel framing – check for interferences with overhead clearance.					30
	e. Coordinate with finish schedule.					60
	f. Review elevator shaft plans and sections for compliance with shaftway fire resistance rating requirements – coordinate with and key appropriate P-Types.					30
	g. Review elevator pit requirements (sump, sump pump, ladder, lighting, etc.).					30
	h. Coordinate hoist beam, threshold support, guiderail support, etc., with structural drawings.					30
	i. Review machine room code requirements (Manufacturers' minimum area requirements, clearances, door swing, etc.).					30
	j. Coordinate smoke & fire detection and sprinkler requirements with the MEP drawings.					60

IKM QUALITY CONTROL CHECKLIST – FEBRUARY 2009 EDITION

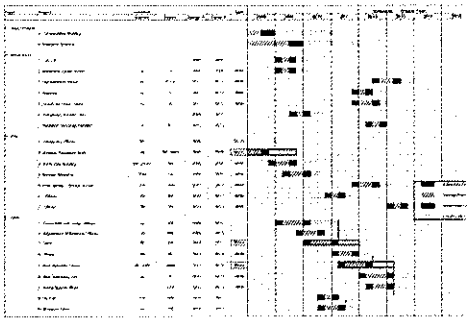
12.	**Exterior Wall Sections & Ext. Details (A8 Series Drawings)**					
	a. Coordinate with plans and key locations on elevations.					30
	b. Check finished floor elevations and floor to floor dimensions. Coordinate with structural framing and foundation drawings.					30
	c. Coordinate with roof and parapet conditions – key to details as needed for insulation and edge conditions. Check R-Value.					60
	d. Details, note and dimension the exterior wall construction – indicating all elements of the wall design (face material, flashing, weeps, mortar control, sheathing, insulation, back-up material, vapor barrier, fire stopping and interior finish material. Check R-Value requirements and dew point calculations. PM to review design with mfg. representative.					60
	e. Coordinate with door, window and louver opening and key to appropriate details for lintels, blocking and flashing.					30
	f. Review below grade damp-proofing/waterproofing, perimeter drainage and insulation requirements and key to appropriate details. Coordinate with specifications.					60
13.	**Door schedule and Details (Typically Drawing A9.1)**					
	a. Coordinate door numbers, room names and door opening widths with the floor plans.					30
	b. Provide door and frame type legends and key to the door schedule. Coordinate frame types with the wall construction (masonry vs. metal stud).					30
	c. Provide head and jamb details that are coordinated with the appropriate partition types and keyed to the door schedule.					30
	d. Review UL Label requirements for all door openings in fire-rated partitions – coordinate with schedule. Review glazing requirements (glass types and area restrictions).					30
	e. Coordinate power and control requirements for automatic doors or security type hardware with electrical drawings.					60
14.	**Interior Details (A9 Series Drawings)**					
	a. Details are properly keyed and cross referenced.					30
	b. Details are noted and dimensioned.					60
	c. Millwork / casework sections and details are provided for each unique condition and properly keyed to interior elevations. A hardware schedule is provided for the millwork details (including lock requirements. Coordinate millwork details with Electrical power and lighting drawings.					60
	d. Coordinate millwork finishes with the finish schedule and specifications.					60
	e. Coordinate millwork finishes with the finish schedule and specifications.					60
15.	**Interior Finish Plans and Schedule (FN Series Drawings)**					
	a. Coordinate with architectural floor plans and elevations.					30
	b. Coordinate with specifications.					60

IKM QUALITY CONTROL CHECKLIST – FEBRUARY 2009 EDITION

	c. Verify that finishes comply with Owner's latest Interior Finish Standards.					
16.	**Plan Check Kitchen Dietary – Verify that:**					
	a. The equipment layout matches other discipline floor plans and that there are no conflicts with columns.					30
	b. The Summary of Work is consistent with the scope.					30
	c. The specifications describe phasing requirements or alternates where applicable.					30
	d. The architectural finish schedule and list of finish material is consistent with Division 9 Table of Contents.					60
	e. All items specified "as indicated" or "where indicated" in the specifications are in fact indicated on contract drawings.					60
	f. Major items of equipment specified are consistent with the contract drawings.					60
	g. All materials shown on the drawings or required to complete the project are included in the specifications.					60

Schedule and Budget Control

Schedule

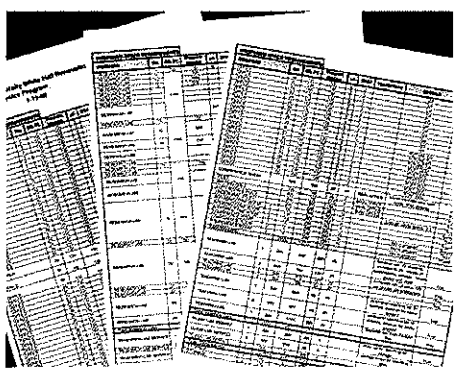


The IKM Team has a firm commitment to adequate and appropriate staffing, and rigorously monitors staffing as compared to the status of ongoing work and project workload. Corporate policy requires biweekly updating of staffing and workload projections so that internal tracking systems for IKM staffing reflect the latest available information. This overlay with the team meetings with all the consultants where project and task scheduling are addressed, monitored and adjusted to keep the prearranged schedule in place. This allows project teams to be supplemented to meet surges in workload or unexpected deadlines. Our Team has a firm commitment to provide adequate resources in personnel, technology and finances.

Budget

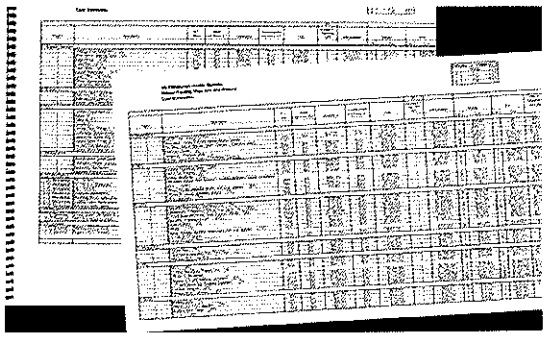
Projects of this magnitude require diligent control of the projected construction costs as it relates to budget. Our project control system follows a pre-established format. Our system combines financial monitoring with an assessment of progress, client satisfaction, and technical performance.

The initial step is the Owner's establishment of a budget. This often is in place prior to the retention of the design professional. If it is not, the Project core team (Owner, Architect and Construction Manager) needs to establish a realistic budget based on the scope of work. IKM has found success in utilizing a third party estimator in the process. We engage them with team and work through refining a scope to establish an initial estimate based on square footage. This estimate will include an agreed upon 'design' contingency which is a separate item from the construction contingency. This is in place to cover the unknowns of the design due to the preliminary nature of the estimate.



As the project moves through the design phases, the estimate is revisited at the 30%, 60% and 90% stages. Each successive stage adds more detail. The accuracy level increases as more information and detail are developed. As that accuracy level increases, the design contingency decreases.

As each of the phases we recommend that an estimate is establish by the third party estimator, who is a consultant to the design team as well as having the construction manager producing an estimate. These two estimators need to have an agreement as to format so that they are comparable. An estimate reconciliatory meeting where a phase final estimate can be developed.



That meeting is a venue to establish any value modification required to ensure the project remains within the budget parameters. These modification options are assigned values and the Owner determines which to incorporate into the design.

At the bi-weekly sub consultant meetings estimate conformance is a standing agenda line item. Any subconsultant who questions whether an element of the evolving design is consistent with the estimate creates a request to the construction manager for verification of informance. This process keeps construction costs as a vital component of design and offers the project team the requisite information to make appropriate decisions.

H. ADDITIONAL INFORMATION

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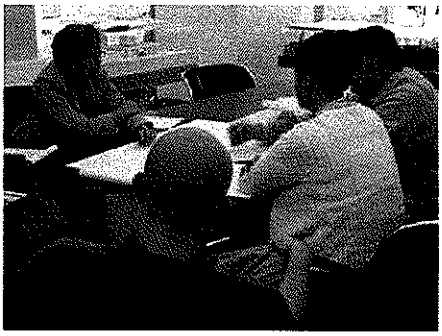
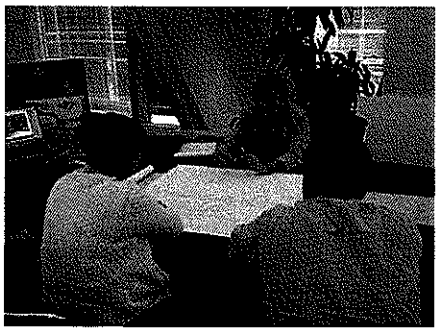
Management of Multiple Subconsultants





A project of this magnitude requires several specialized consultants who bring a unique subset of knowledge to the team to meet the project's demands. These sub consultants can be assigned to the team by the Owner or hired direct. In either case they become a subconsultant that requires management and oversight.

Successful management of sub consultants begins with the selection or assignment of highly competent, reliable, and appropriately experienced firms. With this important step accomplished, our subconsultant management plan consists of:

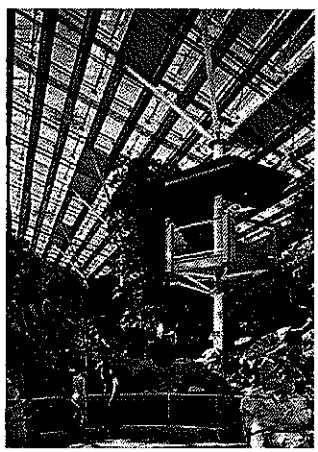
- Selecting the appropriate subconsultant based requirements.
- Partnering meeting is used to establish design goals and objectives outlining responsibilities, parameters and opportunities.
- Careful, advance planning, task scheduling, and resource allocation planning to clearly establish expectations up front and to avoid surprises and schedule conflicts.
- Biweekly project review meetings to assess progress and adjust plans as necessary.
- Require our sub consultants to follow the same Quality Management Plan that has been outlined herein.
- Subconsultants will be required to provide a minimum of monthly written reports of progress and project issues.
- Utilization of electronic communication methods to facilitate project communication. IKM has an FTP web site on which we will place drawings and specifications for transfer.
- IKM will be involved in every aspect of every task, and will be 100% responsible and accountable for the work performed by our in-house professionals and our sub-consultants.

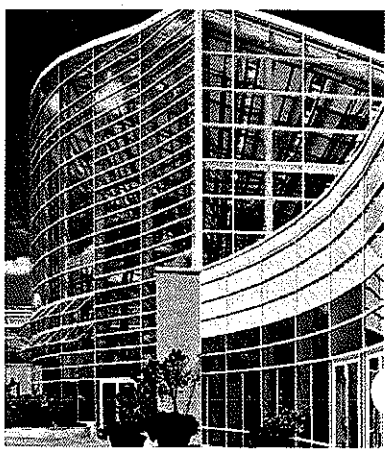
IKM has been engaged in many large projects with specialty consultants under our contractual obligation. Several projects that have had this approach include: Lancaster General Orthopedic Hospital, UPMC Hillman Cancer Center, Summa Health Orthopaedic Hospital, and Phipps Conservatory and Botanical Gardens expansion.

In the Phipps project for example, IKM managed the following specialty subconsultants:

- Civil Engineers, Survey, Test Borings, Environmental Assessment Survey
- Landscape Architects
- Structural Engineers
- Mechanical, Plumbing, Fire Protection, and Electrical Engineers
- Lighting Designers
- Environmental and Effects Controls
- Production Houses and Tropical Forest
- Production Greenhouse Designers
- Tropical Forest Exhibit Designers
- Tropical Forest Aquatic Life Support System Design
- Tropical Forest Exhibit Sound System Designer
- Tropical Forest Mechanical Schematic Design
- Glasshouse Consultant
- Food Service Equipment Design
- Sustainable Design Consultant, Commissioning Agents, Phase I
- Commissioning Agents, Phase II
- Sustainable Design Consultant
- Cost Estimators
- ADA Guidelines Review
- Store Layout Consulting Services
- Café Layout Consulting Services
- Signage Consultants
- Communications Consultant

The use of the above management plan provided the framework for successful development of the design that met the Owners time and financial parameters.

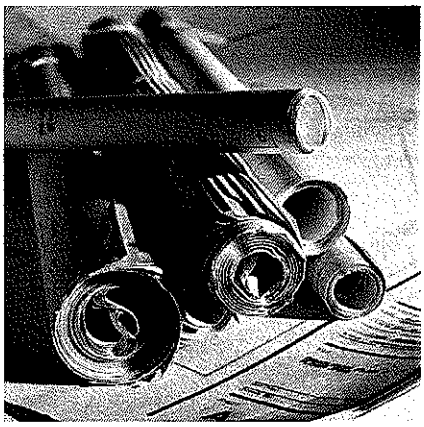




H. ADDITIONAL INFORMATION

30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS NEEDED.

Collaboration with a Construction Manager



On larger projects it is common for clients to engage a construction manager during the design phase to perform tasks such as assisting with the development of accurate construction cost estimates, scheduling, technology issues, reviewing the architect's plans for constructability, obtaining and negotiating bids, and coordination of aspects of the work. A successful relationship between the design professional and the construction manager is established through the development of project goals and objectives developed using partnering techniques. These goals and objectives then serve as the benchmark to refer to as the project proceeds.

Construction Management takes one of two primary forms: Agency Construction Manager or Construction Manager as constructor. In Agency Construction Manager the CM works as an agent of the owner and facilitates the execution of construction through managing multiple contractors. In this approach, the CM could either hold the contracts or the Owner would. In the approach of CM as Constructor, the CM functions as the manager of multiple contracts and self performs some of the work.

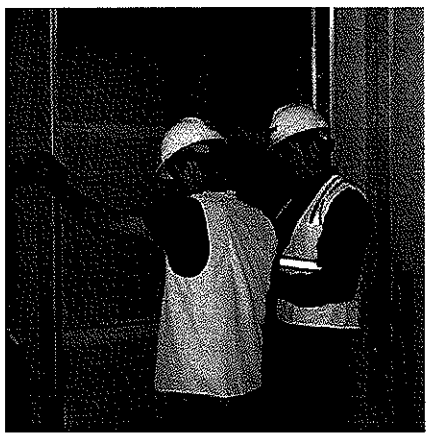
In both approaches, the CM is responsible for schedule and cost control. Often times the CM is responsible for delivering a Guaranteed Maximum Price (GMP) which contractually obligates the CM to a cost of construction.

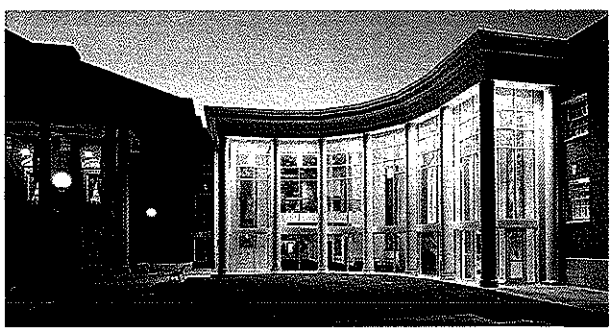
IKM has had successful and extensive experience with and has worked on a large number of projects involving a construction manager (CM), where the Owner at the beginning of the project has brought on board the CM. The CM becomes an integral part of the project execution team that includes the Owner, Architect and its consultants. The CM provides invaluable advice about construction methods, means and phasing and constructability as well as providing in-depth cost estimating, life-cycle cost benefit analysis for the selection of materials and systems and value-engineering when it is required.

We find this team approach to be extremely valuable and beneficial to the project; it enhances the successful outcome of a project, ensuring a quality design and project on time and within budget.

Recent IKM projects with a Construction Manager include:

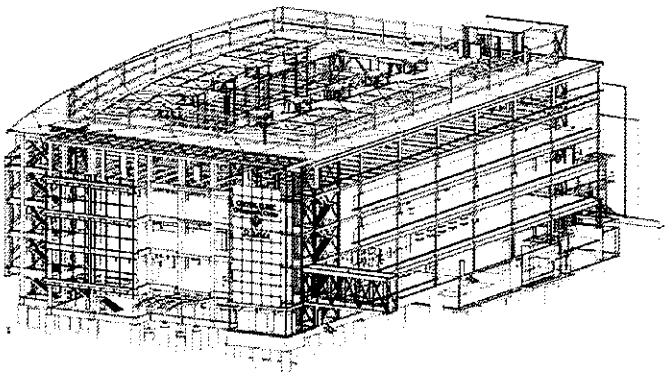
West Virginia University, White Hall Computer Lab Addition
Penn State University, Food Science Building
Phipps Conservatory and Botanical Gardens
Allegheny County Health Department, Clack Laboratory
International Brotherhood of Electrical Workers Campus
UPMC Hillman Cancer Center
UPMC Eye & Ear Institute
Slippery Rock University, Physical Therapy Building
Indiana University of Pennsylvania, Fisher Auditorium
Allegheny General Hospital, Northwest Wing





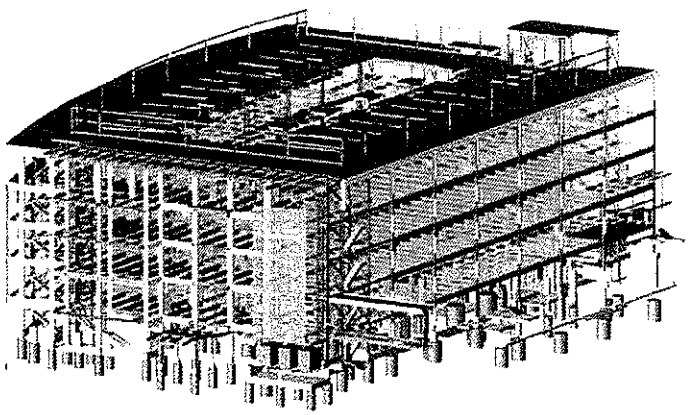
Building Information Modeling (BIM)

IKM's drawing software package is a cutting edge technology for computer aided drafting and design known as Building Information Modeling. IKM has converted all projects to this software. Called "BIM," this new tool uses three-dimensional, real-time, dynamic building modeling hardware and software to increase productivity in building design and construction. McGraw-Hill Construction cites some of top benefits of BIM as, "Easier coordination; Improved productivity; Improved communication; and Improved Quality Control." (McGraw Hill SmartMarket Report, p. 2)

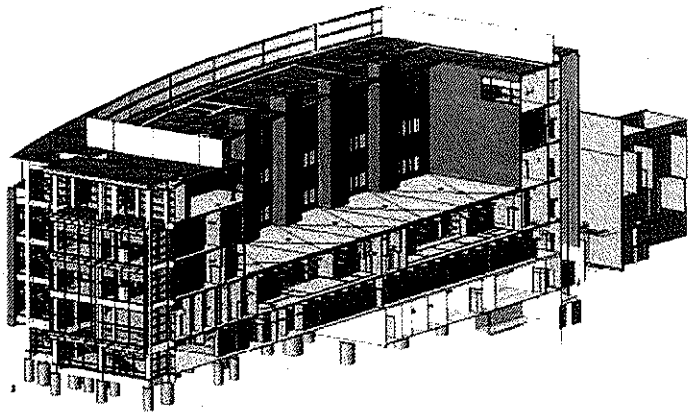


At its basic level, BIM represents a change from traditional 2-D design to dynamic 3-D model built around a database of a project's physical and functional characteristics. The more data input to the model the more benefits that can be gained from it. The model includes building geometry, spatial relationships, geographic information and quantities and properties of building components.

This software facilitates designing all elements in three dimensions. This enables systems, assemblies, and sequences to be shown in a relative scale within the entire facility. Modeling provides representations of the actual parts and pieces, called "intelligent objects," used to build a building rather than drawing lines that combine to represent objects. Once placed in a building model, these intelligent objects are automatically represented in any plan, elevation, section, detail, schedule, rendering, budget, maintenance plan, etc.



Using BIM enables the architect and engineering design team to produce a single model with each team member adding their own discipline-specific knowledge and tracking changes. By working on the same model, the design team realizes greater collaboration and communication in the early stages of the design process. This increases coordination between disciplines and results in less conflicts between trades during construction. The interoperability of the BIM software eliminates manual re-entry of data from application to application and eliminates time lost to document version checking.



BIM provides powerful visualization capability. IKM is using BIM to communicate design intentions to all parties by taking advantage of its 3-D visualization capabilities. The software allows the use of conflict detection where the computer actually informs team members about interrelated parts of the building through detailed computer visualization of each part in relation to the total building. For example, MEP engineers can detect where duct work or plumbing might conflict with the structural systems. This type of error reduction capability allows the design team to collectively resolve issues during design reducing contentious, expensive and time-consuming conflicts in the field during construction.

There are also significant opportunities for BIM tools to address issues related to green building. Data incorporated into a building model can be used to analyze the performance of a building, including such green aspects as daylighting, energy efficiency and sustainable materials.

Overall, IKM believes that BIM is driving an unprecedented revolution in the building and design industry transforming the wa projects are designed, built and managed.

[McGraw Hill Smart Market Report: www.analyticsstore.construction.com or http://construction.ecnext.com/coms2/analytics]

Estimating Effectiveness

IKM utilizes the services of a professional cost estimator to prepare our construction cost estimates. They are specialists in construction cost estimating, including material costs, construction methods and techniques, subcontractor purchasing and labor conditions and rates. We rely on experts to do our cost estimates, as we believe they are much more reliable and proficient at it than we architects and engineers are, and are in much closer touch with the vagaries of the construction industry than we are.

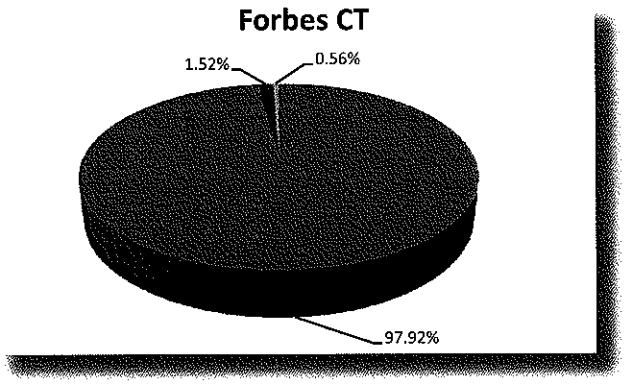
In a construction project delivered in a conventional manner, we typically have our estimators prepare a total of four cost estimates when working on a project through construction. The first estimate is at the conclusion of the program phase prior to commencing schematic design, and one estimate each before the conclusion of the schematic design phase, design development phase and construction document phase.

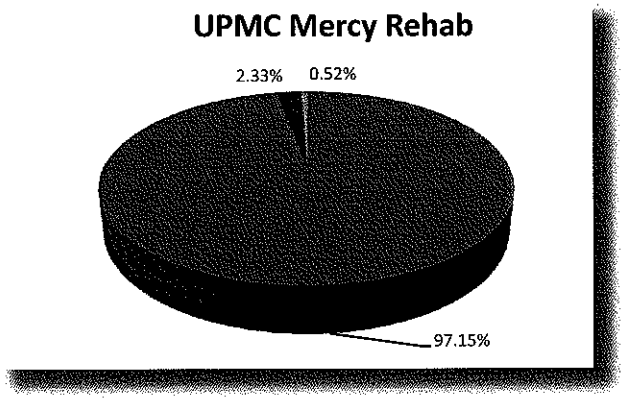
The program phase estimate is a parameter square foot estimate by specification division based on the program square footage and the building type. This estimate gives a general indication how close to the budget the program is. Since the estimate is not based upon an actual design, it will carry a rather large ontingency. If there is too large a difference between the estimate and the budget, adjustments have to be made to either the program or budget.

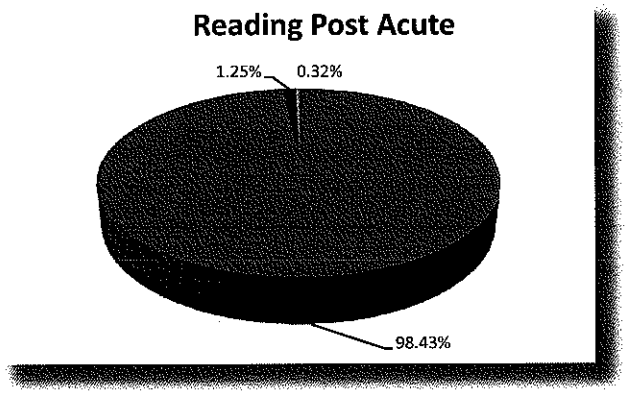
Each of the other three estimates is based upon a quantity take off of labor and materials by specification division. Since less detail is provided at the schematic design phase (and the cost consultant, in close cooperation with the architect and consultants, must anticipate quantities and extent of materials and systems) than at design development, and less detail is provided at design development than at construction documents, a decreasing percentage contingency is used for schematic design, for design development and for construction documents.

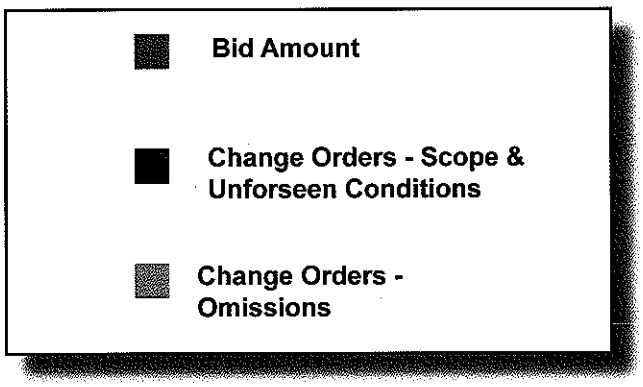
If any one of the three estimates indicates an estimated cost in excess of the budget, adjustments are made to the design and/ or documents (drawings and specifications) by either: decreasing the size of the program, increasing the budget (and not changing the design), or value engineering of materials and systems. This entails evaluating the first cost versus the life cycle cost of the various building components, and may result in decreasing the quality and/or quantity of them. In addition to value engineering, add or deduct alternates will be considered for inclusion in the id documents, in which components can either be added or deducted, or substitutions proposed.

Examples of recent healthcare project estimates



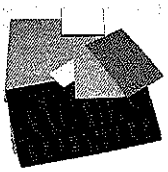




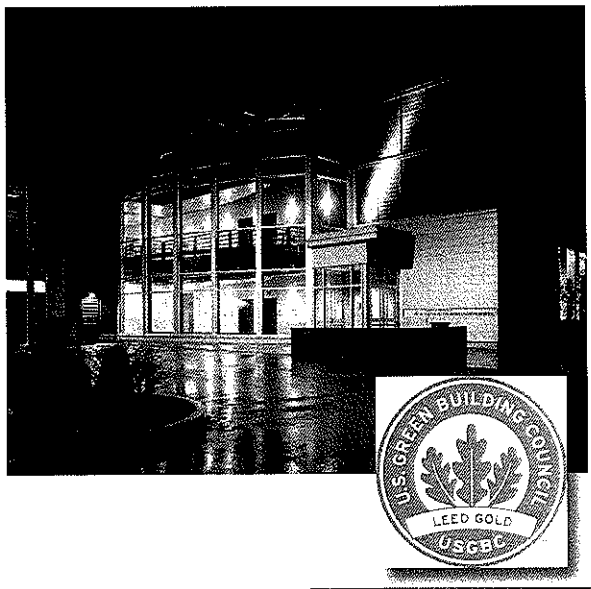


30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS NEEDED.

Sustainable Design



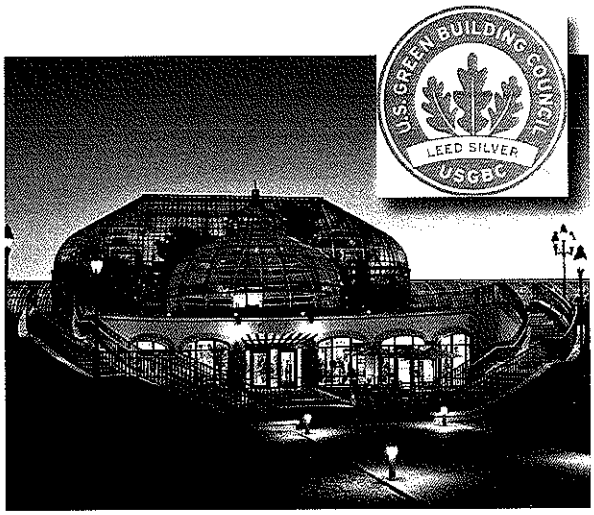
An educational building designed in a sustainable manner incorporates a holistic approach to design to address the structure and its interaction with occupants. A "green" building is one that emphasizes an integrated approach to building design, engineering, material selection, energy efficiency, lighting, furnishings, technology, building operations, maintenance, and waste management strategies. Not only should it be an attractive and pleasant place to live, work and learn, but it should also be practical, economical and make a natural connection to both the community and the land.



An integral component of our approach is the exploration of alternative solutions involving sustainable/green design concepts. This can be accomplished in numerous ways. We are familiar with and currently have a LEED® Gold and LEED® Silver certification included in our portfolio which is a nationally recognized system to evaluate sustainable design.

We have found the US Green Building Council's LEED® rating system to be a useful tool to organize the analysis of green building issues. However, the concepts of LEED® can be applied without formal application to the USGBC and utilize a self-evaluation approach. The five major LEED® categories that should be considered are:

1. Sustainable sites
2. Water efficiency
3. Energy and Atmosphere
4. Materials and resources
5. Indoor environmental quality



There are a variety of site, building and systems design alternatives that may have a functional and economic impact on a project. As we learn more about the specifics of your project, we propose to review these alternatives early in the design process to determine which alternatives are valid for further exploration during the design development phase of the project.

H. ADDITIONAL INFORMATION

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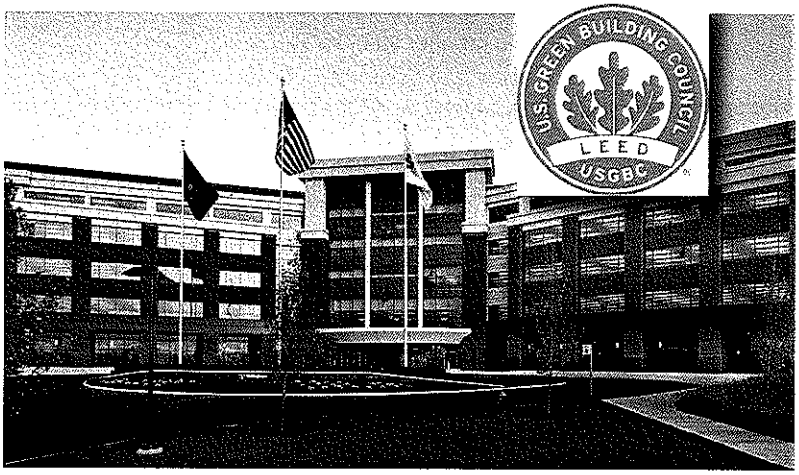
IKM believes we have a significant role in being good stewards of the environment. As such we are a signatory to AIA 2030 which is our professional organization's challenge and commitment to reform the architectural industry to be carbon neutral by 2030. This includes not only the built environment product designed by the firm but also the internal business processes. IKM is proud to be one of only 6 Pennsylvania firms that has committed to this effort.

We have several LEED® accredited professionals on the team and a demonstrated commitment to sustainable design principles. We are committed to making our projects environmentally sensitive, energy efficient, sustainable and healthy to occupy. We have projects that have been awarded LEED® certification by the US Green Building Council and many being designed according to LEED® standards.

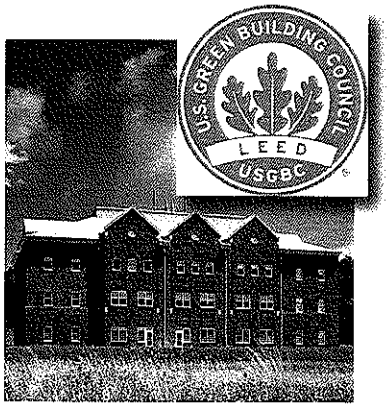
It is important to note that our work incorporating these principles precedes the LEED® Rating System and reflects our commitment to sustainability. In addition, our engineering consultants offer LEED® Accredited professionals on staff and offer additional projects seeking LEED® Certification. We are knowledgeable and well versed in the process.

University of Pittsburgh, McGowan Institute for Regenerative Medicine,
Pittsburgh, PA
Research facility for artificial organ development
LEED® Gold Rating

Phipps Conservatory and Botanical Gardens,
Pittsburgh, PA
Renovation and additions to Phipps Conservatory **LEED® SILVER Rating**



Westinghouse Corporate Headquarters

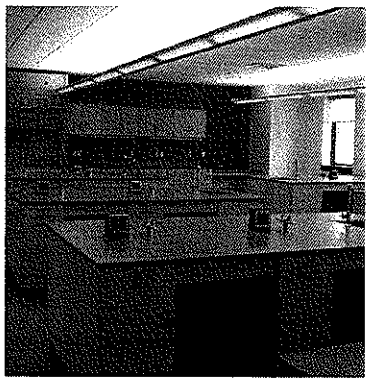


Lock Haven University Health Services

Westinghouse Chattanooga Office Building
Chattanooga, TN
LEED® SILVER Rating

Lock Haven University Health Services Building
Clearfield, PA
New university classroom/ administration building.
LEED® Certification

Westinghouse New Corporate Headquarters
Cranberry Township, PA
LEED® Certification



University of Pittsburgh Mascaro Sustainable Initiative Pittsburgh, PA
Renovation of existing space utilizing sustainable concepts; Client elected not to pursue LEED® certification

Carnegie Science Center,
Pittsburgh, PA
Consultant to international design firm for a replacement facility seeking a LEED® Silver Rating

IKM

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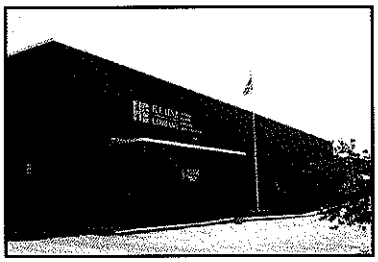
H.F. LENZ COMPANY



Currently in its 64th year, the H.F. Lenz Company offers a full range of engineering services for building systems, infrastructure, and industry. Our projects span the nation, with the heaviest concentration in the Northeast, and exceed $530 million in MEP, civil and structural engineering services annually. Each market sector—government, corporate, health care, education, and industry—is served by a team of specialists who understand the unique needs of the clients they serve. We currently employ 175 people between our Johnstown, Pennsylvania headquarters and satellite offices in both Pittsburgh and Erie, Pennsylvania. Our 45 Professional Engineers are registered in a total of 50 states and the District of Columbia.

Services offered include:

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

The key members of the H.F. Lenz Company's Project Team for this project have worked with various Department of Defense agencies such as the U.S. Air Force, the U.S. Army Corps of Engineers, the Ohio National Guard, and the Pennsylvania National Guard. Through this experience they have become thoroughly knowledgable with the U.S. Army Corps of Engineers Guide Specifications, and Government guidelines for these types of facilities.

Thomas F. Deter, P.E., will serve as the Engineering Principal-in-Charge for this project. Tom's experience with the Department of Defense includes completing the design phase of six U.S. Army Reserve Centers in West Virginia and Pennsylvania, a new Joint Armed Forces Aviation Facility in Johnstown, Pennsylvania, multidiscipline engineering projects at Letterkenny Army Depot in Chambersburg, Pennsylvania, and various renovation and alteration projects under an Indefinite Deliver Contract with the U.S. Air force 911th Airlift Group.

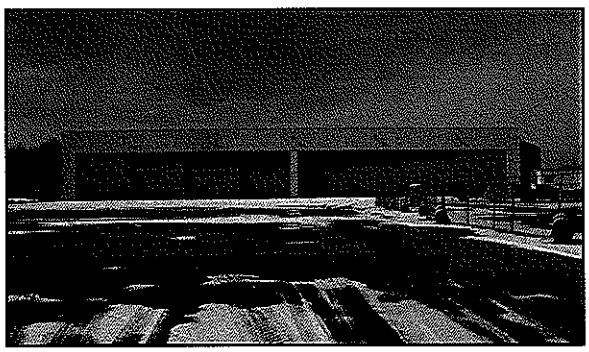
Our team has provided engineering services for $75 million of construction for the Baltimore Corps of Engineers over the past 20 years including 7 Indefinite Delivery-Type Contracts and 11 new reserve centers. We have held six (6) previous IDTC's for Letterkenny Army Depot under which we have completed numerous projects requiring a variety of engineering expertise.

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

DEPARTMENT OF DEFENSE EXPERIENCE

Ohio National Guard
Akron-Canton Regional Airport

- Expand hangar to accommodate CH-47 helicopters
- New fixed foam fire suppression system
- Modifications to existing security systems
- New 26,400 sq.ft. aircraft storage facility



H. ADDITIONAL INFORMATION

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U.S. Air Force, 911th Airlift Group
Pittsburgh International Airport
- New 20,000 sq.ft. Base Civil Engineering Building
- New vehicle wash addition, Building 322
- Renovations to Hangar, Building 129
- Replacement of Base fire/security alarm system

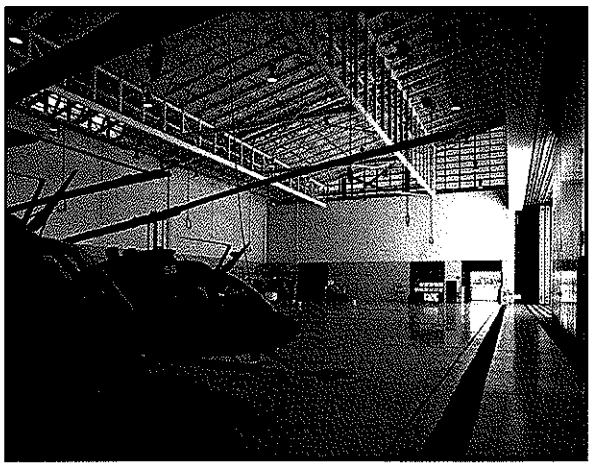
Operational Maintenance Facility
Pennsylvania National Guard
Johnstown, Pennsylvania
- 12,700 sq.ft. maintenance area, 8 work bays
- Covered exterior wash rack
- 8,000 sq.ft. office and shop area

U.S. Army Reserve Aviation Center
Johnstown, Pennsylvania
- New 31,000 sq.ft. hangar
- Aviation maintenance shop
- Office/administrative/classroom space
- Training building for 300 reservists

Army Reserve Center
Beckley, West Virginia
New 300-member reserve center with training building and maintenance shop

Army Reserve Center
Morgantown, West Virginia
New 300-member reserve center with training building and four bay maintenance shop

Army Reserve Center
Wheeling, West Virginia
New 284-member reserve center with training building and maintenance shop



Army Reserve Center
Rainelle, West Virginia
New 200-member reserve center with training building and three bay maintenance shop

Army Reserve Center
Weirton, West Virginia
New 200-member reserve center with training building and maintenance shop

Army Reserve Center
Brownsville, Pennsylvania
New 200-member reserve center with training building and six bay maintenance shop

Army Reserve Center
Johnstown, Pennsylvania
New 200-member reserve center with training building and maintenance shop

Army Reserve Center
Kingwood, West Virginia
100-member reserve center with training building and four bay maintenance shop

Army Reserve Center
Grantsville, West Virginia
New 100-member reserve center with training building and maintenance shop

Army Reserve Center
Elkins, West Virginia
New 60-member reserve center with training building and three bay maintenance shop

Morlock Army Reserve Center
Pittsburgh, Pennsylvania
HVAC modifications

Copely Army Reserve Center
Oil City, Pennsylvania
Boiler addition and auxiliary systems

Steele Army Reserve Center
Pittsburgh, Pennsylvania
Complete HVAC system replacement

H. ADDITIONAL INFORMATION

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Letterkenny Army Depot
Chambersburg, Pennsylvania
Seven indefinite-delivery contracts for mechanical, electrical, civil, and structural engineering and surveying services

Fort Ritchie, Maryland
Two indefinite-delivery contracts for mechanical, electrical, civil, and structural engineering and surveying services

Ammunition Plant
Scranton, Pennsylvania
Upgrade lighting system in production shop

Walter Reed Army Medical Center
Washington, D.C.
Energy engineering analysis program, main hospital building

Corps of Engineers Offices
The Wanamaker Building
Philadelphia, Pennsylvania
Tenant fit-up

Ford City Armory
Ford City, Pennsylvania
New 24,400 sq.ft. training center with classrooms and kitchen/dining facilities

Naval Air Station
Lakehurst, New Jersey
Air conditioning tune-up study

Various Activities
Pennsylvania, New York, and New Jersey
Specialized energy studies

Naval Ship Parts Control Center
Mechanicsburg, Pennsylvania
Administrative facility improvements

Naval Research Laboratory
Washington, D.C.
Three indefinite delivery contracts for mechanical, electrical, and structural engineering services

Oceana Naval Station
Virginia Beach, Virginia
- Energy monitoring and control system
- Boiler plant modifications

MECHANICAL AND ELECTRICAL ENGINEERING

H.F. Lenz Company has over 64 years of experience in the evaluation, master planning, and design of all types of mechanical, electrical, fire protection/life safety, and plumbing systems for both new construction and renovation projects.

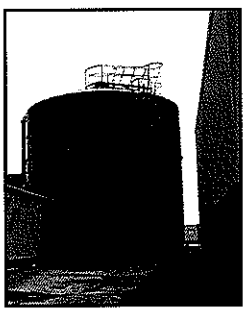
Our Engineers have extensive knowledge of the design criteria and regulations pertaining to all types of buildings and facilities, such as fire and life safety codes, ADA compliance, indoor air quality, energy efficiency, and sustainable design features. We have provided these services for Government Agencies, Corporate Clients, Financial Institutions, Health Care Facilities, Educational Institutions, Manufacturing and Industrial Clients.

Our designs not only meet current program requirements, but also incorporate the flexibility to provide for both growing and evolving technology.

Plumbing Engineering

Most of H.F. Lenz Company's projects include the design of cold and hot water distribution systems, sanitary sewer and vent systems, storm sewer piping systems and also the design of any specialized piping systems that could include specialized water or drainage systems. Specialized drainage systems would include kitchen waste and acid waste that cannot be directly discharged into the sanitary sewer system. These wastes would be routed through interceptors to eliminate the grease and acid products from the drainage system.

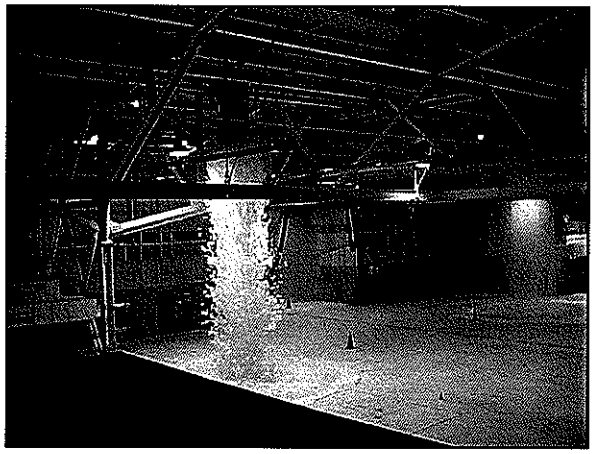
Fire Protection/Life Safety Engineering



H.F. Lenz Company has over six decades of experience in the fire protection/life safety design of large-scale institutional, commercial and governmental projects. We have extensive experience with fire/heat/ smoke detection and alarm systems, fire suppression systems,

30. Provide Any Additional Information Requested By the Agency. Attached Additional Sheets as Needed.

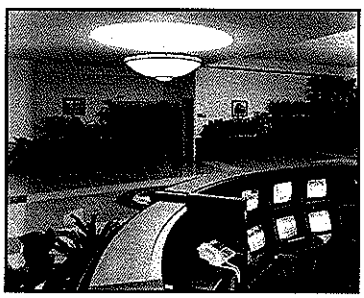
smoke evaluation systems, and smoke control systems. Our engineering staff, which includes a degreed Fire Protection Engineer and a member of SFPE, is highly experienced at incorporating state-of-the-art fire detection, alarm, and suppression systems in both existing facilities and new construction.



Communications Engineering

The H.F. Lenz Company offers a full range of data/ communications engineering services for single building or campus-type environments. Because we are a multi-discipline engineering firm experienced in all aspects of building design, we understand how the communications system interrelates with the total infrastructure. This is especially important in existing buildings or campuses where the installation of new data systems is often complicated by architectural, structural, mechanical, and electrical constraints. Our data engineers understand how to work within these constraints and will find solutions to seamlessly integrate the new communications system into the existing infrastructure.

Security Systems Design



Security systems vary in their complexity and the level of protection they provide. H.F. Lenz Company's security system experience includes: integrated vault security systems, closed circuit television, door monitoring, card readers, infrared motion detectors, metal detectors, and integration with fire and life safety systems.

The H.F. Lenz Company has worked closely with security consultants to provide power and conduit for a variety of raceway infrastructures. Including:

Department of Justice Building
Washington, D.C.

William J. Nealon Federal Building
and U.S. Courthouse
Scranton, Pennsylvania

National Drug Intelligence Center
Johnstown, Pennsylvania

Pennsylvania State Capitol
Complex Addition
Harrisburg, Pennsylvania

Energy Management

H.F. Lenz Company has been involved with energy planning and the design of energy-efficient mechanical and electrical systems for over 40 years. We have been providing energy studies and energy conserving designs for research facilities, colleges and universities, financial institutions, health care facilities, and commercial office buildings. This work has entailed conducting energy audits, establishing energy baselines, identifying and prioritizing energy-conserving opportunities, and recommending energy efficiency projects.

The H.F. Lenz Company uses both tried-and-true and innovative methods to achieve the goal of not simply energy efficiency, but systems that are cost effective, practical, reliable, maintainable and energy efficient. We have made it a priority to employ energy-efficient systems in all our designs, even in times when energy conservation was not "in vogue."

RENEWABLE ENERGY TECHNOLOGIES

As a long-standing leader in the design of energy efficient buildings and a staunch supporter of sustainable design practices, H.F. Lenz Company promotes the use of renewable energy technologies where possible. Renewable sources of energy, including solar and wind, are analyzed early in the planning process as part of a building's energy plan. H.F. Lenz Company Engineers have investigated the feasibility of

incorporating solar and wind technologies into governmental, institutional and commercial buildings.

Solar Energy

A recent example of H.F. Lenz Company's involvement with solar energy is the Science Complex at St. Vincent College in Latrobe, Pennsylvania. For this renovation/addition project, which is designed to attain a LEED Gold rating, H.F. Lenz Company designed a 20 kW roof-mounted photovoltaic system capable of expanding to 60 kW. The system is tied into the building's electrical system via inverters. Excess power produced by the system is routed back to the utility grid. With the available funding source, the payback period will be less than ten years. The estimated annual energy production of this system is $3,500.

HFL also evaluated solar energy system options through life cycle cost analyses for PA DCNR Penn Nursery; Cumberland, MD HRDC Facility; PA DCNR Rock Run ATV Park; Lackawanna State Park Office Building; and PA DCNR Elk Viewing Center. The system "pay-back" analysis resulted in decisions not to include the solar energy system.

Vertical Axis Wind Turbines (VAWT)

H.F. Lenz Company has recently investigated the feasibility of incorporating VAWTs into various projects including two facilities for the Pennsylvania Department of Conservation and Natural Resources (DCNR) and also for a new county office building in Cumberland, Maryland. Considered in the evaluation process were site elevations, wind data, surrounding structures, electric rates, system costs, and maintenance costs. The life cycle cost analysis for these projects showed that the economics were not favorable. H.F. Lenz Company does view vertical axis wind turbines as a viable source of renewable energy and evaluates its potential benefits on a case by case basis.

LEED®

H.F. Lenz Company has been a member of the United States Green Building Council since 2000 and currently has 20 LEED Accredited Professionals on staff. The firm has gained a high level of knowledge in the building green process and we possess the experience to successfully apply these principals to all building projects.

The H.F. Lenz Company has provided engineering design and/or commissioning services for twenty-eight projects that have received LEED Certification, and more than three dozen projects that have been designed or registered for LEED Certification.

CIVIL ENGINEERING – SITE DEVELOPMENT

Since 1977 H.F. Lenz Company has been providing civil/site engineering services for a diverse clientele, including the U.S. Army Corps of Engineers. Our clients include and state and federal agencies, municipalities, colleges and universities, health care facilities, Fortune 500 Corporations, and major retail stores. Our full-services capabilities range from feasibility studies through complete site development and have included single-project sites as large as 100-acres. Our in-house civil engineers and designers work closely with our surveying personnel to produce detailed and accurate final construction plans and specifications. Experienced field inspectors closely monitor the construction process and make sure that the Owners needs are being met.

Our civil engineering services Include:

- Site selection and analysis
- Site grading
- Stormwater management
- Site lighting
- Parking facilities
- Electrical and telecom utility conduits to interface with existing utilities or transition to aerial cable
- Soil erosion and sedimentation control
- Curbing and sidewalks
- Resurfacing, guide rails, and shoulders
- Site access roads and approaches
- Traffic control and circulation
- Signalization and signing
- Wetlands delineation
- Geotechnical analysis
- Pavement design
- Underground fuel storage and distribution
- Water distribution systems
- State and local government approvals and permits
- Final construction plans and specifications
- Construction observation and monitoring
- Shop drawing review

H. ADDITIONAL INFORMATION

30. Provide Any Additional Information Requested By the Agency. Attached Additional Sheets as Needed.

CADD CAPABILITIES

The H.F. Lenz Company has over 110 Lenovo D10 CADD workstations, all configured to work effectively and efficiently within current CADD technologies and future CADD environments such as BIM (Building Information Modeling). All workstations are connected at 1000 megabit, with all remote offices connected to the main office via WAN at T1 level access. Each remote location hosts their own application servers and all data created on these servers are synced back to the main office Data Center SANs (Storage Array Network). The main office location is mirrored to a disaster recovery/business continuity location. Tape backups are performed everyday and an offsite version updated Friday of every week.

End user applications consist of Autodesk CADD suites: Revit Architecture, Revit Structural, Revit MEP, Autocad Architecture, Autocad MEP, Land Development Desktop, Civil 3D and Raster Design. Cadd renderings and animations are performed through Autodesk VIZ and 3D Studio Max.

File delivery can be either uploaded to hosted sites, provided on the H.F. Lenz Company hosting site for download, email, sent on DVD or CD-ROM or provided on SDLT tape.

Autodesk CADD suites are enhanced packages with extensive 3D graphics and Information Modeling capabilities.

- Extensive intelligent modeling libraries
- Automatic flow and obstruction checking
- Automatic system sizing and enhanced interfacing with external Engineering calculation programs
- Automatic scheduling abilities
- Walk-through animations of models
- Automatic section updating, improves consistency between drawings.

PAST PERFORMANCE

Over 85 percent of the HFL's annual workload consist of repeat commissions from satisfied clients including the U.S. Army Corps of Engineers Baltimore District, the General Services Administration, the U.S. Postal Service, the National Park Service, and the U.S. Air Force. This is strong evidence of not only the quality of our work but also our responsiveness to clients and our ability to control costs and meet schedules.

The following are excerpts from letters we received from our clients (emphasis added):

Project: Renovation of Officers' Club
Fort Ritchie, Maryland
Client: U.S. Department of the Army
Baltimore District Corps of Engineers

"I would like to express my appreciation for the timely and professional manner in which you and your staff performed the A/E task on the Renovation of the Fort Ritchie Officers' Club. ***Without your expertise and 'can do' attitude, the short time constraints would not have been met."***

Project: Renovate Building A-13
Naval Research Laboratory
Washington, D.C.
Client: Department of the Navy

"On behalf of the Navy, your firm is commended for its outstanding performance of the subject project. ***The professionalism displayed by your firm in complying with extremely tight schedules and constant implementation of customer changes were superb."***

Project: Various Projects in the
Commonwealth of Pennsylvania
Client: General Services Administration

"...your firm has successfully completed several projects simultaneously under individual work orders, quite often meeting extremely tight schedules.... *Your 'can-do' attitude and immediate responsiveness resulted in a quality project which met the target completion date..."*

H. ADDITIONAL INFORMATION

30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS NEEDED.

IKM Testimonials

" I'm always extremely pleased when I can report to our leadership that a project has been completed on budget and ahead of schedule. "
-- Director of Facilities, Penn State Milton S. Hershey Medical Center

"Our thanks to [IKM] and your team for your outstanding efforts in the visionay design of our new Lancaster General Orthopedic Center and Main Entrance Pavilion. This state-of-the-art Orthopedic facility was designed around the concept of a seamless approach to integrated and coordinated care. It raises the bar for orthopedic care int our region. Your dedicated team of architects has been professional, creative and reliable as they hav eworked with us to assure the design of facilities that meet the needs of our Lancaster Community."

-- Chairperson, Board of Directors

It was a great challenge to design an addition to blend with the structure of a historic building and provide a state of the art regional data center on a tight budget. You have truly exceeded our expectations with the design solution for the exterior, it is a gorgeous building." – Michael E. Moreland, FACHE, Network Director , VA Healthcare

" I am very pleased to provide a strongly positive endorsement for the ability of IKM to plan and implement a large clinical facility that effectively balances the needs for state of the art, efficient and high tech functionality with a patient-friendly, inviting and aesthetically pleasing appearance. The Hillman Cancer Center very much embodies this important balance."

-- Director, UPMC Cancer Centers

"As you know the County, as a government agency, went through a rather rigorous competitive bidding process in order to award you this contract for the Clack Laboratory... your price was extremely competitive andthe quality of your design far exceeded those from other competitors for this job."

-- Director, Allegheny County Health Department

"The IKM team, worked closely with the Health Center staff to ensure that our needs and concerns were met. They were responsive to any and all issues and concerns that developed throughout the various phases of the project." *-- Administrator, Washington County Health Center*

I. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

31. SIGNATURE

32. DATE

March 10, 2011

33. NAME AND TITLE

Joel R. Bernard, AIA, NCARB, LEED AP, Principal

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER *(if any)*: DEFK11028

PART II – GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME	3. YEAR ESTABLISHED	4. DUNS NUMBER
IKM Incorporated	1986 (see 8a below)	13-693-8743

2b. STREET	5. OWNERSHIP
One PPG Place	a. TYPE: Professional Corporation

2c. CITY	2d. State	2e. ZIP CODE	b. SMALL BUSINESS STATUS
Pittsburgh	PA	15222	N/A

6a. POINT OF CONTACT NAME AND TITLE	7. NAME OF FIRM *(if block 2a is a branch office)*
Joel R. Bernard, AIA, LEED AP, Principal	N/A

6b. TELEPHONE NUMBER	6c. E-MAIL ADDRESS
412-281-1337	jbernard@ikminc.com

8a. FORMER FIRM NAME(S) *(if any)*	8b. YR. ESTABLISHED	8c. DUNS NUMBER
IKM SGE Incorporated 1983; IKM SGE Pittsburgh 1987; The IKM Partnership 1970; Ingham Kafka Marcu 1966; Ingham & McKinney 1959; Ingham Boyd & Pratt 1946; Ingham & Boyd 1911.	1911	N/A

9. EMPLOYEES BY DISCIPLINE

a. Function Code	b. Discipline	c. No. of Employees (1) FIRM	c. No. of Employees (2) BRANCH
02	Administrative	2	
06	Architecture	27*	
56	Specification Writers	1	
08	CADD Technicians	6	
37	Interior Designers	3	
?2	Finance	2	
J2	Marketing	2	
	Architectural Illustrator	1	
	LEED® Accredited	10†	
	*includes professional degree and Registered architects		
	†included in the count as architects		
	Other Employees		
	Total	44	

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

a. Profile Code	b. Experience	c. Revenue Index Number *(see below)*
A08	Animal Facilities	5
A11	Auditoriums & Theaters	6
C08	Codes, Standards, Ordinances	1
C10	Commercial Building (Low Rise)	6
D04	Design Build	6
E02	Educational Facilities; Classrooms	6
G01	Garages	6
H05	Health Systems Planning	4
I05	Interior Design; Space Planning	5
L01	Laboratories; Medical Research	8
O01	Office Buildings	2
P06	Planning	3
R08	Research Facilities	5
V01	Value Analysis; Life Cycle Costing	3
Z01	Zoning; Land Use Studies	3

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

(Insert revenue index number shown at right)

a. Federal Work	1
b. Non-Federal Work	7
c. Total Work	7

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

1. Less than $100,000
2. $100,000 to less than $250,000
3. $250,000 to less than $500,000
4. $500,000 to less than $1 million
5. $1 million to less than $2 million
6. $2 million to less than $5 million
7. $5 million to less than $10 million
8. $10 million to less than $25 million
9. $25 million to less than $50 million
10. $50 million or greater

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE

b. DATE: 03-10-2011

c. NAME AND TITLE: Joel R. Bernard, AIA, LEED AP, Principal, IKM Incorporated

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER *(If any)*: DEFK11026

PART II - GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

FIRM (OR BRANCH OFFICE) NAME: **H.F. Lenz Company**		3. YEAR ESTABLISHED: 1953	4. DUNS NUMBER: 04-719-8304
2b. STREET: 1407 Scalp Avenue		5. OWNERSHIP	
2c. CITY: Johnstown	2d. STATE: PA / 2e. ZIP CODE: 15904	a. TYPE: Corporation CEC No. 047198304	
6a. POINT OF CONTACT NAME AND TITLE: Thomas F. Deter, P.E., LEED AP, Principal		b. SMALL BUSINESS STATUS: N/A	
6b. TELEPHONE NUMBER: 814-269-9300	6c. E-MAIL ADDRESS: tdeter@hflenz.com	7. NAME OF FIRM *(If block 2a is a branch office)*: N/A	
8a. FORMER FIRM NAME(S) *(If any)*		8b. YR. ESTABLISHED	8c. DUNS NUMBER

9. EMPLOYEES BY DISCIPLINE

a. Function Code	b. Discipline	c. No. of Employees (1) FIRM	c. No. of Employees (2) BRANCH
02	Administrative	35	33
08	CADD Technician	14	14
12	Civil Engineer	11	11
13	Communications Engineer	4	4
15	Construction Inspectors	10	10
21	Electrical Engineer	22	21
30	Geologist	1	1
38	Land Surveyor	5	5
42	Mechanical Engineer	35	31
52	Sanitary Engineer	1	1
56	Specifications Writer	2	1
57	Structural Engineer	8	8
58	Engineering Technician	27	19
	Other Employees		
	Total	175	159

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

a. Profile Code	b. Experience	c. Revenue Index Number *(see below)*
A11	Auditorium and Theatres	3
B01	Barracks; Dormitories	4
C12	Communications Systems; TV;	3
C13	Computer Facilities; Computer Service	6
E02	Educational Facilities; Classrooms	5
E03	Electrical Studies and Design	5
E07	Energy Conservation; New Energy Sources	6
F03	Fire Protection	4
G01	Garages; Vehicle Maintenance Facilities	3
H04	Heating; Ventilating; Air Conditioning	6
H08	Historical Preservation	4
H09	Hospitals and Medical Facilities	6
I01	Industrial Buildings; Manufacturing Plants	3
J01	Judicial and Courtroom Facilities	4
L01	Laboratories; Medical Research Facilities	5
L04	Libraries; Museum; Galleries	4
O01	Office Buildings; Industrial Parks	6
P08	Prisons and Correctional Facilities	3
P12	Power Generation, Distribution	4
S02	Security Systems; Intruder and Smoke	4
T04	Topographic Surveying and Mapping	3
U03	Utilities (Gas and Steam)	4

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

(Insert revenue index number shown at right)

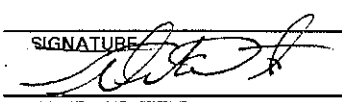
a. Federal Work	6
b. Non-Federal Work	8
c. Total Work	8

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

1. Less than $100,000
2. $100,00 to less than $250,000
3. $250,000 to less than $500,000
4. $500,000 to less than $1 million
5. $1 million to less than $2 million
6. $2 million to less than $5 million
7. $5 million to less than $10 million
8. $10 million to less than $25 million
9. $25 million to less than $50 million
10. $50 million or greater

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

SIGNATURE: 

b. DATE: February 18, 2011

c. NAME AND TITLE: Thomas F. Deter, P.E., LEED AP, Principal