

PROJECTS PERFORMED FOR OTHER EMPLOYERS

Commercial

Building 200, Airside Business Park, Moon Township, Pennsylvania. *Airside Business Park, L.P.* Department Manager. Responsible for architectural design and document quality oversight. Design team provided planning, architectural, and engineering services for the design of the shell and core of this 93,000-square-foot office building. The office building is precast tilt-up concrete panels with metal accents at entrance canopies, compatible with the nearby airport's terminal. 2002

Office Building 100 and Parking Structure, Airside Business Park, Moon Township, Pennsylvania. *Airside Business Park, L.P.* Department Manager. Responsible for architectural design and document quality oversight. This new 117,000-square-foot design-build-to-suit office building was custom-designed to serve as a corporate headquarters yet offers the built-in flexibility to accommodate potential new tenants in the future. A training facility is provided, as well as a suite of conference rooms on each floor. The combined use of both movable glass and solid wall partitions enable quick and easy reconfiguration of spaces. Under-floor power and communications cabling and carpet squares allow easy reconfiguration of networks and electrical outlets. Phones run from a data network, so that each phone is addressable through programming and extensions can be redirected without moving wires. Separate air handlers are provided for each floor, to accommodate future usage by multiple tenants. A parking deck was constructed to accommodate the office park tenants. The three-level 260-vehicle structure, constructed above ground-level surface parking for 150 vehicles, was designed using precast concrete panels to match the office building design. 2002

Tenant Improvements to Flex Building 400, Airside Business Park, Moon Township, Pennsylvania. *Airside Business Park, L.P.* Department Manager. Responsible for architectural design and document quality oversight. Design team provided planning, architecture, and engineering design services for the shell and core structure of Building 400, as well as tenant improvement/interior design services for the project. NDC Health occupies two-thirds of the structure. The original facility design was customized for NDC, providing fewer loading docks than the six originally specified. Approximately 90% of the high-bay area is being used as office space and includes a boardroom, executive offices, and training room. The remaining tenant space was converted to at-grade storefronts and is available for lease. 2004

Office Complex and Testing Laboratory Renovation - Adaptive Reuse of Maintenance Garage, Ottawa, Illinois. *Illinois Department of Transportation, District 3.* Department Manager. Responsible for architectural design and document quality oversight. Design team performed architectural, engineering, and construction services for the conversion and renovation of the garage structure attached to the Illinois Department of Transportation, District 3 Headquarters in Ottawa, Illinois. The existing one-story maintenance garage was converted into additional office space and materials testing laboratories for the Department. 2004

Flex Office/Warehouse Building 400, Airside Business Park, Moon Township, Pennsylvania. *Airside Business Park, L.P.* Department Manager. Responsible for architectural design and document quality oversight. Flex Building 400 was designed to provide flexibility for tenants that need both office and warehouse space. The one-story office space surrounds the 1.5-story high-bay warehouse space on three sides. The loading dock for the warehouse was originally designed to have six depressed dock parking locations. Due to predetermined tenant needs, this building was modified to provide only two dock locations. The building was constructed using tilt-up concrete with metal accents at entrance canopies, compatible with the nearby airport's terminal. 2003

Renovations to ADP Pittsburgh Office, Pittsburgh, Pennsylvania. *ADP (Automatic Data Processing).* Project Manager. Responsible for project management, architectural design, and document quality oversight. Design team provided design services for renovations to ADP's Pittsburgh office building. Tasks included replacement of the existing skylight above the central atrium, and alterations to the existing building to improve security. 2005

PNC Firstside Center, Pittsburgh, Pennsylvania. *PNC Financial Services Corporation.* Production Department Director/Sustainable Design Coordinator. Responsible for staffing, quality control, and production phase overview for

design of new 650,000 square foot bank operations center. Project included raised flooring, and extensive daylighting. Responsible for sustainable concept development and LEED® Certification administration. At the time of its construction the Firstside Center was the largest building to receive LEED® Silver Certification. 2000

Parking Garage Addition, Newark, New Jersey. *New Jersey Institute of Technology.* Production Department Head. Supervised staff and contracted for outsourced drafting services for two-story 90-space parking addition to existing five-story parking facility. Construction cost \$4,300,000. Completion Date 2000.

Atlantic Center Parking Garage, Atlanta, Georgia. *Atlantic Center.* Staff Architect. Assisted in design development. Responsible for construction documentation for portions of new parking garage facility in Midtown Atlanta to complement 56-story high-rise office building. Size 160,000 square feet. Construction cost \$9,000,000. Completion Date 1987. Work performed as associate architect to Philip Johnson/John Burgee. 1985

Branch Bank, Baldwin Borough, Pennsylvania. *Workingmens Savings Bank.* Project Manager/Architect. Size 3,700 square feet. Construction cost \$670 K. Completion Date 1995.

Burdines Department Store, Boynton Beach, Florida. Staff Architect. Size 200,000 square feet. Construction cost \$12M. Completion Date 1985.

Aviation and Transit

Historical Display, Pittsburgh International Airport (PIT), Pittsburgh, Pennsylvania. *Allegheny County Airport Authority.* Project Manager. Responsible for architectural design and document quality oversight. Design team designed the Historical Display area as the centerpiece of the terminal-wide historical display program at Pittsburgh International Airport, for the Allegheny County Airport Authority (ACAA). This display area features the theme "Yesterday's Airport of Tomorrow" and combines materials salvaged from the original Airport with new design elements, to celebrate the history of the airport and its journey into the future. 2004

AFCO Cargo Facility A, Pittsburgh International Airport (PIT), Moon Township, Pennsylvania. *Aviation Facilities Company, Inc.* Department Manager. Responsible for architectural design and document quality oversight. AFCO's new \$4,400,000 cargo warehouse has 50,000 square feet and was designed for a high level of flexibility. The warehouse was planned to accommodate up to five tenants. The building offers "shell" spaces, designed so that each tenant space can be customized, providing flexibility in both mix of tenants and layout of tenant spaces. 2004

Intermodal Facility Architectural and Engineering Services, Robinson Town Centre, Robinson Township, Pennsylvania. *Port Authority of Allegheny County.* Department Manager. Participated in architectural design, quality control and construction administration for this three-story parking facility, site development, and bus access features. Design team provided inclusive architectural and engineering services for the Robinson Town Centre Intermodal Facility, part of the network of park-n-ride facilities that provide convenient bus access for the client's patrons. Constructed on approximately eight acres, the intermodal facility includes 865 park-n-ride spaces, with 400 spaces in an elevated parking garage; bus stops with sheltered passenger waiting areas; a kiss-n-ride drop-off area; commercial development space; and a bus layover area. 2002

General Aviation Terminal Building Design and Construction Administration, Connellsville Airport (VVS), Lemont Furnace, Pennsylvania. *Fayette County Airport Authority.* Department Manager. Responsible for architectural design and document quality oversight. Design team provided architecture and construction administration services under a task order engineering agreement for the construction of a new general aviation terminal building. The new 6,000-square-foot terminal includes a 24,200-square-foot, 1940s-era Taylorcraft hangar that has been converted to a covered, open-air parking and exhibition space. Conversion of the hangar involved selective demolition of the exterior walls, surface rehabilitation, and replacement of the floor slabs and roofing. Construction administration services involved coordination of four prime contractors, scheduling, and quality and cost control. 2004

Short Term Parking Garage Stair Tower Replacement, Pittsburgh International Airport (PIT), Pittsburgh, Pennsylvania. *Allegheny County Airport Authority.* Department Manager. Responsible for architectural design and document quality oversight. Design team was tasked to design replacement stair towers for Pittsburgh International Airport's parking garage in two phases. Stairs 5-8 were constructed during Phase 1 with Stair Towers 1-4 constructed in the second phase. This \$3 million dollar project included demolition and replacement of the stair towers in their existing locations. Design team provided existing condition verification and documentation, design development, construction documents, and construction administration. 2003

General Aviation Terminal/Administration Building, St. Marys Municipal Airport (OYM), St. Marys, Pennsylvania. *St. Marys Area Airport Authority.* Department Manager. Responsible for architectural design and document quality oversight. Design team oversaw site/civil design and provided architectural and structural design; HVAC, electrical, plumbing, and fire protection engineering; bid assistance; and construction phase services for the construction of a new general aviation terminal/administration building at St. Mary's Municipal Airport. 2004

New Haven Bus Maintenance Facility, Hamden, Connecticut. *Connecticut Department of Transportation.* Department Manager. Responsible for architectural design and document quality oversight. Design team designed a 290,000-square-foot bus maintenance, storage, and administrative facility, which will incorporate state-of-the-art equipment for the repair and maintenance of a 150-bus fleet and 20 support vehicles. The new facility includes an EPDM roof, with roof vents, roof top air handling equipment and over one mile of roof curbs and cants, money-handling security; controlled room access; an energy-efficient exhaust system for a high level of diesel operation; vehicle wash bays; detail and fueling bays; vehicle maintenance and body repair bays; and parts storage. Design team's services included architecture and structural; heating, ventilation, and air conditioning; electrical; plumbing; fire protection; and industrial equipment engineering. Design team also performed preliminary engineering studies, prepared environmental documents, and provided remediation design for contaminants from the abandoned steel mill that had previously occupied the site. 2007

MAGLEV Planning, Engineering, Architectural, and Project Management Services, Allegheny and Westmoreland Counties, Pennsylvania. *Port Authority of Allegheny County.* Department Manager and Architect. Responsibilities included leading the architectural team in the development of numerous MAGPort studies and designs, and design and document quality oversight. Design team developed the concepts for a high-speed magnetic levitation transportation system in Pennsylvania. The undertaking involved a preliminary engineering study of four alternative alignments for a 54-mile demonstration project that was to connect the Pittsburgh International Airport, downtown Pittsburgh, and two suburban station locations east of the city. Design team's role included developing the preliminary design for the guide way and stations, developing cost estimates, preparing an environmental overview, and managing the ridership estimate. The 54-mile system would have been the first link in an envisioned regional and national system connecting the Midwest to the East Coast. 2002

Engineering and Architectural Design, Construction Management, and Construction Administration Services, Joseph A. Hardy Connellsville Airport (VVS), Lemont Furnace, Pennsylvania. *Fayette County Airport Authority.* Architect. Responsible for Project Architecture and Department Managing. Design team provided engineering and architecture, construction management, and construction administration services under a task order agreement for improvements at the Joseph A. Hardy Connellsville Airport. Projects ranged from design and construction administration for a new general aviation terminal building to design of runway safety area improvements and were part of an ambitious airport-wide program of service, facility, and safety enhancements.

First Avenue Station, Pittsburgh, Pennsylvania. *Port Authority of Allegheny County.* Construction Design Department Director. Responsible for directing the design of a new intermodal station which was added to the central business district of Pittsburgh to accommodate an active LRT line and a Port Authority bus boarding station. 2000

Master Planning

Journey of Light Feasibility Study, Muscat, Oman. *Journey of Light.* Department Manager. Responsible for architectural design and document quality oversight. Design team prepared a "site/project adapted" version of the

Feasibility Study, altering the document to account for changes in the concept resulting from the shift from the original project in Qatar to the present target site in Muscat, Oman. 2010

NRF Master Plan for Facility Upgrade, Confidential Site. *Confidential Client.* Planner. Responsibilities included leading the master plan team in the development of numerous planning alternatives within the context of complex functions, and preparation of a full range of planning documents to communicate concepts. Total value of improvements was greater than \$1 Billion. Site growth and construction have continued at the over 50-year old campus, providing a mixture of older buildings and relatively new facilities. Using GIS technology, Design team developed an ongoing web-based strategic master planning module to focus site facility and infrastructure decisions on the long-range goals of flexibility, program responsiveness, and cost efficiencies. This planning module includes strategies for the development of the site and facilities with the ability to produce periodic reports (master plans) for funding requests and updates; it also includes both long-range and short-range functional siting and layout, architectural considerations for flexibility, utility system availability, location and design, and security and selected process reviews. Short-range reporting includes phased individual project recommendations within the 10- and 30-year plans with five-year incremental milestones. 2007

Allentown State Hospital Redevelopment, Allentown PA, *TCA Properties LP,* Responsible for leading the master plan team and producing plans of multiple options for the former state hospital site, for commercial office and retail, destination hotel, long term care, single and multi family residential and tech-industrial buildings on a site overlooking the Lehigh River Valley. 2016 - 2017

Sports and Recreation

PNC Park, Pittsburgh, Pennsylvania. *Sports and Exhibition Authority of Pittsburgh and Allegheny County.* Production Department Director. Responsible for staffing of architectural production team for 38,000-seat, \$192,000,000 stadium for the Pittsburgh Pirates. Duties included training of staff, establishing documentation delivery protocol, and outsourcing of additional staffing requirements. Coordinated work with design architects, HOK of Kansas City, Missouri. Work on this project was performed under a "bridging" contract, with the design architects submitting design development documents. Completion of construction documents was performed in coordination with prime constructor in modified design-build relationship. 2000

Pitt Stadium Renovations Charles Duratz Training Center, Pittsburgh, Pennsylvania. *University of Pittsburgh.* Project Architect. Responsible for design and document production for 75,000 square foot renovation within existing shell space beneath stadium concourse. Project included new home locker rooms, equipment and training facilities with field level entries to 1925 cast concrete bowl stadium. Structural framing and concrete deck intermediate floors provided for future infill. 1996

Spacecoast Stadium, Brevard County, Florida. *Florida Marlins, Brevard County.* Project Architect. Size 50,000 square feet. Construction cost \$6,000,000. Completion Date 1994.

Adamson Stadium Renovations, California, Pennsylvania. *California University of Pennsylvania.* Production Department Director. Project Architect responsible for project design and preparation of documents for rehabilitation of existing 4,000-seat cast concrete grandstand and renovation of existing field house and press box addition.

Mountaineer Stadium Expansion, Morgantown, West Virginia. *West Virginia University.* Staff Architect/Designer. Assisted in the development of schematic plan options and associated documents for the proposed 5,000-square-foot addition to the existing field house. 1984

Educational

Masonic Temple Historic Renovation and Addition, Pittsburgh, Pennsylvania. *University of Pittsburgh.* Production Department Director/Project Architect. Responsible for design and document preparation for 95,000-square-foot historic renovation and 3,000-square-foot addition. Renovations included full rehabilitation of electrical, HVAC, and telecommunications, elevator replacement, life safety and ADA upgrades to 1928 construction, converting the former Masonic Lodge to University classroom and conference programs. Renovation design included addition of fire stair, full sprinklering, adaptation of exiting paths and replacement of elevators for ADA compliance. 2000

Middle School Renovations, Pittsburgh, Pennsylvania. *Shady Side Academy.* Production Department Director. Responsible for staffing, quality control and production phase overview for design of life safety, HVAC, and electrical upgrades to 14,000 square foot traditional stone construction classroom building. The project included an addition to the visual communications wing. Phased construction facilitated building usage during renovation. Outsourced production functions to consultant, coordinated all file transfer procedures. 1999

HVAC Upgrade at Learning Resource Center, California, Pennsylvania. *California University of Pennsylvania.* Project Manager/Architect. Responsible for development of fee proposals, consultant coordination, and document production for various electrical and general renovations projects. Services were provided under this indefinite quantity contract during 1989 and 1990.

Junction Hollow Project - Sustainable Design Alternatives Charrette, Pittsburgh, Pennsylvania. *Carnegie Mellon University/Carnegie Museums/Gumberg Properties.* Joint facilitator with CMU's Center for Building Diagnostics and Performance for design charrette exploring building envelope alternatives, for planned entrepreneurial incubator facility near Forbes Avenue entry to CMU. 2001

Residential

Laurel Valley Country Club Cottages, Ligonier, Pennsylvania. *Laurel Valley Country Club.* Construction Design Department Director/Architectural Designer. Project included site development and building design and construction for nine vacation resort apartments adjacent to golf course. Project performed under modified Design-Build delivery with prime constructor. Nine units at 990 square feet each. Construction Cost \$950,000. Completion Date 2000.

Religious

Classroom Wing Addition, Indiana, Pennsylvania. *Grace Methodist Church.* Project Designer. Size 10,000 square feet. Construction cost \$900,000.

Correctional Facilities

L3 Housing Unit and Support Facilities Renovation, State Regional Correctional Facility, Mercer, Pennsylvania. *Pennsylvania Department of Corrections, Pennsylvania Department of General Services.* Project Manager. Size 132,000 square feet. Construction cost \$9,161,000.

State Correctional Facility, Houtzdale, Pennsylvania. *Pennsylvania Department of Corrections, Pennsylvania Department of General Services.* Project Architect. Size 700,000 square feet. Construction cost \$80,000,000. Completion Date 1996.

Healthcare

Children's Hospital Replacement Facility, Pittsburgh, Pennsylvania. *UPMC, Children's Hospital of Pittsburgh.* Project Architect. Was directly involved in development of various conceptual planning schemes for inpatient and emergency service programs for Children's Hospital at the existing Montefiore Hospital site in Oakland. This process required familiarity with planning concepts and considerations inherent in the Oakland community, as well as challenging physical constraints. Completed 2001

Magee Research Laboratory Addition, Pittsburgh, Pennsylvania. *Magee-Womens Hospital, Pittsburgh.* Project Architect. Responsible for planned 100,000 square foot addition adjacent to existing lab building and Hampton Inn, above existing mechanical services floor and parking deck. Completed 2001

St. Francis Medical Center Central Plant, Pittsburgh, Pennsylvania. *St. Francis Health System.* Project Manager/Architect. Responsible for schematic design, design development and construction documentation. Work also included public hearings and testimony for variances required for zero-lot line development of Medical Center property within dense urban district adjacent to historic cemetery. Size 20,000 square feet. **Construction cost \$10,000,000. Completion Date 1997.**

St. Francis New Castle Short Stay Addition, New Castle, Pennsylvania. *St. Francis New Castle General Hospital.* Production Department Director. Responsible for staffing, quality control, and production phase overview for design of 9,500 square foot addition and 2,500 square foot renovation of existing general hospital to provide ambulatory care wing adjacent to existing operating rooms. Project included new entrance, waiting and observation beds. Completed 2000

Nurse Stations, Beaver, Pennsylvania. *The Medical Center at Beaver.* Production Department Director. Responsible for staffing, quality control, and production phase overview for design of several isolated nurse stations. Completed 2000

Laboratory, Beaver, Pennsylvania. *The Medical Center at Beaver.* Production Department Director. Responsible for staffing, quality control, and production phase overview for renovation design of 3,100 square feet of existing laboratory space. Completed 2000

Quest Diagnostic Laboratories, South, Bethel Park, Pennsylvania. *University of Pittsburgh Medical Center.* Production Department Director. Responsible for staffing, quality control, and production phase overview for design of 2,500 square foot renovation of existing ambulatory care center for specimen laboratory. Completed 1999

Sports Performance Center and Sports Medicine Clinic Facility. *University of Pittsburgh Medical Center.* Construction Design Department Director.

Montefiore General Internal Medicine, Pittsburgh, Pennsylvania. *University of Pittsburgh Medical Center.* Production Department Director. Responsible for staffing, quality control, and production phase overview for design of 13,000 square foot renovation of existing patient bed floor to internal medicine clinic space. (Completed 1999)

Transplant Hospital, Palermo, Sicily. *University of Pittsburgh Medical Center, Republic of Italy.* Project Architect.

Passavant East Building. *University of Pittsburgh Medical Center.* Construction Design Department Director.

South Satellite Healthcare Facility, Bethel Park, Pennsylvania. *University of Pittsburgh Medical Center/Children's Hospital of Pittsburgh/Magee Womens Hospital.* Project Manager/Architect. Responsible for preliminary design of building shell and selected departments and tenants for new freestanding ambulatory care center. Planning included full development of Children's Hospital area. Size 79,000 square feet. Construction Cost \$12,000,000. Completion Date 1996.

Primary Care Center, Greentree, Pennsylvania. *Blue Cross/Blue Shield.* Project Architect. Size 49,000 square feet. Construction cost \$7,000,000. Completion Date 1996.

East Building Renovation, Pittsburgh, Pennsylvania. *St. Francis Health Center.* Project Manager/Architect. Space planning, HVAC, electrical, and historical renovations to the 13-floor, 110,000 square foot East Building of St. Francis Health Center. Construction Cost \$10,800,000. Completion Date 1997.

East Building Window and Roofing Replacement, Pittsburgh, Pennsylvania. *St. Francis Health Center.* Project Manager/Architect. Replaced windows and slate roofing for the East Building of the St. Francis Health Center. Construction Cost \$1,200,000. Completion Date 1996.

St. Francis Medical Center Central Plant, Pittsburgh, Pennsylvania. *St. Francis Health System.* Project Manager/Architect. Responsible for design and construction documents of new four-story central heating and cooling facility with facility management offices and lockers, placed within dense urban campus using existing basement and foundations. Building won AIA Pittsburgh Merit Award in 1998. Size 20,000 square feet. Construction Cost \$10,000,000. Completion Date 1997.

Magnetic Resonance Imaging Suite, Steubenville, Ohio. *Ohio Valley Hospital.* Project Manager/Architect. Size 1,200 square feet. Construction Cost \$900,000. Completion Date 1994.

Cherry Hill Nursing Facility, Uniontown, Pennsylvania. Project Architect. Responsible for design and construction of new 51,000 square foot, 120-bed nursing facility. Construction Cost \$3,500,000. Completion Date 1993.

Skilled Nursing Facility, Waynesburg, Pennsylvania. *Greene County Memorial Hospital (GCMH).* Project Manager/Architect. Responsible for design and documentation of 18-bed 1,000 square foot facility within existing hospital. Construction Cost \$600,000. Completion Date 1992.

Radiology/Mammography Renovation, Waynesburg, Pennsylvania. *Greene County Memorial Hospital.* Project Manager/Architect. Size 6,000 square feet. Construction Cost \$500,000. Completion Date 1992.

Mobile Diagnostic Entry & Trailer Pad, Pittsburgh, Pennsylvania. *Forbes Metropolitan Health Center.* Project Architect. Size 600 square feet. **Construction Cost \$200,000. Completion Date 1992.**

Cardiac Catheterization Suite, Clearfield, Pennsylvania. *Clearfield Hospital.* Project Manager/Architect. Size 2,500 square feet. **Construction Cost \$450,000. Completion Date 1992.**

Mercy Hospital Locust Street Addition, Pittsburgh, Pennsylvania. *Pittsburgh Mercy Health System.* Project Architect. Size 50,000 square feet. **Construction Cost \$85,000,000. Completion Date 1994.**

Mercy Psychiatric Institute Adult Psychiatric Unit, Pittsburgh, Pennsylvania. *Pittsburgh Mercy Health System.* Project Manager/Architect. Size 6,700 square feet. **Construction Cost \$490,000. Completion Date 1992.**

Mercy Psychiatric Institute Adolescent Psychiatric Unit, Pittsburgh, Pennsylvania. *Pittsburgh Mercy Health System.* Project Architect. Size 6,700 square feet. **Construction Cost \$366,000. Completion Date 1990.**

Mercy Psychiatric Institute Geriatric Psychiatric Unit, Pittsburgh, Pennsylvania. *Pittsburgh Mercy Health System.* Project Architect. Size 7,000 square feet. **Construction Cost \$275,000. Completion Date 1990.**

Mercy Center for Chemical Dependencies, Patient Care Unit, Foyer Renovation, Pittsburgh, Pennsylvania. *Pittsburgh Mercy Health System.* Project Manager/Architect. Size 5,000 square feet. **Construction Cost \$402,000. Completion Date 1992.**

Mercy Psychiatric Institute, Evaluation and Referral Center, Pittsburgh, Pennsylvania. *Pittsburgh Mercy Health System.* Project Manager/Architect. Size 7,200 square feet. Construction Cost \$620,000. Completion Date 1991.

Mercy Psychiatric Institute Social Works Offices, Pittsburgh, Pennsylvania. *Pittsburgh Mercy Health System.* Project Manager/Architect. Size 4,200 square feet. Construction Cost \$179,000. Completion Date 1991.

Mercy Psychiatric Institute Elevator Replacement, Pittsburgh, Pennsylvania. *Pittsburgh Mercy Health System.* Project Manager/Architect. Construction Cost \$150,000. Completion Date 1990.

Mercy Psychiatric Institute Master Plan and Programming Study, Pittsburgh, Pennsylvania. *Pittsburgh Mercy Health System.* Project Architect. Responsible for development of master plan components, budget and schedule for proposed phased renovations to convert existing general hospital to freestanding psychiatric facility.

Master Plan and Programming Study, Pittsburgh, Pennsylvania. *The Western Pennsylvania Hospital.* Project Designer. Assisted in development of numerous plan components, schedules and cost estimates to meet programmed needs. Completed 1987

Fifth Flood Addition, Helipad, and Elevator Extension, Pittsburgh, Pennsylvania. *The Western Pennsylvania Hospital.* Project Manager/Designer. Size 32,000 square feet. Construction Cost \$5,000,000.

10-Floor West Tower Addition, Pittsburgh, Pennsylvania. *The Western Pennsylvania Hospital.* Project Designer. Size 160,000 square feet. Construction Cost \$12,000,000.

Radiology, Nuclear Medicine and Ultrasound, Pittsburgh, Pennsylvania. *The Western Pennsylvania Hospital.* Project Designer. Size 4,000 square feet. Construction Cost \$400,000.

Seventh Floor Progressive Care Beds, Pittsburgh, Pennsylvania. *The Western Pennsylvania Hospital.* Project Manager/Architect. Size 2,000 square feet. Construction Cost \$106,000. Completion Date 1988.

Cardiac Rehab/Bridge Renovation, Pittsburgh, Pennsylvania. *The Western Pennsylvania Hospital.* Project Manager/Architect. Size 3,600 square feet. Construction Cost \$340,000. Completion Date 1989.

Mellon Pavilion Lobby Renovation, Pittsburgh, Pennsylvania. *The Western Pennsylvania Hospital.* Project Manager/Architect. Size 4,000 square feet. Construction Cost \$400,000. Completion Date 1989.

Sleep Apnea Clinic, Pittsburgh, Pennsylvania. *The Western Pennsylvania Hospital.* Project Manager/Architect. Size 400 square feet. Construction Cost \$100,000. Completion Date 1989.

10-Floor "C" Tower Addition, Pittsburgh, Pennsylvania. *The Western Pennsylvania Hospital.* Project Designer. Size 90,000 square feet. Construction Cost \$10,400,000.

Nursing Home Expansion to 285-Bed CCRC, Pittsburgh, Pennsylvania. *Greensburg Home.* Project Manager/Architect. Size 120,000 square feet. Construction Cost \$10,800,000.

Obstetrics and Neonatal Expansion, Falls Church, Virginia. *Fairfax Hospital.* Staff Architect. Size 10,000 square feet. Construction Cost \$800,000.

Master Plan, Jesup, Georgia. *Wayne County Memorial Hospital.* Staff Architect/Designer. Construction Cost \$3,000,000.

Outpatient Surgery Center, Ashville, North Carolina. *Memorial Mission Hospital.* Staff Architect. Size 12,000 square feet. Construction Cost \$1,500,000. Completion Date 1984.

Lee Moffitt Cancer Center, Tampa, Florida. *University of Southern Florida.* Staff Architect. Size 240,000 square feet. Construction Cost \$30,000,000. Completion Date 1985.

Government – Municipal and Federal

Findlay Joint Public Safety Facility Feasibility Study, Clinton, Pennsylvania. *Findlay, Township of.* Project Manager. Responsible for project management, architectural design, and document quality oversight. Design team provided project feasibility services for a Joint Public Safety Facility to serve police, fire, and emergency services. The work included site and architectural planning of program elements into available site and building areas for two Findlay Township sites, further described by building engineering disciplines and validated by a conceptual construction cost estimate. The result of this study was to determine the feasibility of the project of approximately \$4 million in cost and 25,000 square feet in size, as represented in a final report. 2007

Beaver County Parking Garage, Beaver, Pennsylvania. *Beaver County Commissioners.* Department Manager. Responsible for participating in design, quality control, and construction administration for a three-level parking facility. Design team provided full-service design and construction documents, and construction administration for the Beaver County Parking Garage, a new 298-space, three-level structure constructed at the intersection of Third and Commerce Streets in downtown Beaver, Pennsylvania. The garage supplements the Borough's parking for its new Beaver County Courthouse. 2002

Clinton Community Park Amphitheater, Findlay Township, Pennsylvania. *Findlay, Township of.* Project Manager. Responsible for project management, architectural design, and quality control. Design team provided full architectural and engineering design for the Clinton Community Park Amphitheater, a freestanding open-air structure that serves numerous performance functions for Findlay Township. The facility includes a stage with concrete floor and wood roof framing including a truss spanning the stage width, decorative concrete masonry walls, asphalt shingle roof, general and stage lighting, and handicapped accessible concrete ramps. 2004

Consolidation of Beaver County Human Service Agencies, Beaver, Pennsylvania. *Castlebrook Development, L.P.* Department Manager. Responsible for architectural design and document quality oversight. Design team performed a feasibility study, programming, and conceptual design for the consolidation of county human service agencies in downtown Beaver Falls, Pennsylvania. Design team subsequently provided interior design and fit-up services for a \$7.4 million, 70,000-square-foot building to house the restructured operations. 2004

Border Patrol Facilities Design Standards, U.S. Border States. *U.S. Army Corps of Engineers, Fort Worth District.* Senior Architect. Responsible for architectural design, site planning, and design standard development. Work products included plans, reports and data sheets, produced via AutoCAD, Revit BIM models, information spreadsheets, and databases. Design team provided design standards to meet the operational requirements for Border Patrol facilities, including border stations, checkpoints, sector headquarters, forward operating bases, and other related facilities. Design team's objective was to prepare standards that clearly and concisely conveyed the specific intent in designing facilities that meet mission requirements, can be delivered efficiently within reasonable cost, and meet sustainability and code regulations. Design team facilitated a kick-off meeting; coordinated, reviewed, and integrated design guidance; and conducted a site visit to view existing facilities. Design team developed baseline design requirements, room data sheets, concept design drawings, and records of analysis for each of the target facilities. Design team also verified the suitability of previously-prepared standard elements related to administrative areas, agent support areas, process and detainee areas, holding rooms, and main building support systems. 2014

Military

Junior NCO and Enlisted Quarters, Fort Irwin, California. *Stronghold Engineering, Inc.* Project Manager. Responsible for project management, architectural design and quality control, and coordination with multiple disciplines and Design team offices for this California project. Under a Design-Build MATOC contract with the U.S. Army Corps of Engineers, Los Angeles District, Design team worked with contractor Stronghold Engineering as designer of record for the design-build delivery of 24 JNCO/Enlisted Quarters at the Fort Irwin National Training Center in California. The housing units are comprised of 24 two-bedroom apartments in 12 one-story duplex buildings and were designed to strict USACE guidelines for materials, energy efficiency, and response to regional architectural precedents. 2002

Upgrade of the Kinetic Energy Missile Testing Complex, White Sands Missile Range, New Mexico. *U.S. Army Corps of Engineers, Fort Worth District.* Department Manager. Responsibilities included conducting an initial site visit and survey to determine project scope, architectural design, and document quality oversight. A 1,500-square-foot Missile Assembly Building (MAB) and Explosives Storage Bunker was added to the White Sands Missile Range. The project included utility installation, fire protection and lightning protection systems, and anti-terrorism and force protection measures. It also included installation of fiber optics to transmit test data from the field to the mission control blockhouse. Uniform Federal Accessibility Standards and Americans with Disabilities Act Accessibility Guidelines were followed. Services included surveying, geotechnical exploration, architecture, and multi-discipline engineering services. 2003

Master Planning of Bagram East Airbase, Bagram Airbase, Afghanistan. *U.S. Army Corps of Engineers, Middle East District.* Architect. Responsibilities included leading the planning team, site planning, and architectural design of numerous proposed buildings. Design team provided a master planning team to perform site surveys at Bagram Airbase in Afghanistan for U.S. CENTCOM. Design team provided expertise in military master planning, architecture, electrical, civil, computer aided design, and cost-engineering disciplines to accomplish the assignment. The team assessed relevant data including topography, geotechnical, water sources, power sources, base access, force protection, UXO disposal sites, and existing landmines. The proposed base is intended to be constructed adjacent to the existing airfield which will be improved as part of this project. Planning was based on CENTCOM standards for an Enduring Presence Facility, according to the "Sand Book." Total project costs for the base and infrastructure improvements were estimated at \$333 million. The total building areas included approximately 1,295,000 square feet of buildings. The final master planning report summarized all data that was gathered, listed assumptions, recommended planning options, prepared a general scope of work for a follow-on design-build contract, and provided a preliminary cost estimate. Results were presented in a draft DD1391 and in AutoCAD drawings. Work was coordinated with USACE Bagram Office personnel. 2003

Master Planning for the Afghan National Army Academy, Kabul, Afghanistan. *U.S. Army Corps of Engineers, Middle East District.* Architect. Responsibilities included leading the planning team, site planning, and architectural design of numerous proposed buildings. Design team provided a master planning team to perform site surveys to develop a master plan for the Afghan National Army Academy near Kabul, Afghanistan. Design team provided expertise in architecture, electrical, civil, computer-aided design, and cost-engineering disciplines to accomplish the assignment. The team assessed relevant data including topography, geotechnical, water sources, power sources, base access, force protection, disposal sites, and other Afghanistan requirements. Existing facilities were surveyed to determine if they could be renovated economically. Work was coordinated with the client's area office personnel. The final master planning report summarized all data gathered, listed assumptions, recommended options, and provided a preliminary cost estimate. A general Scope of Work for a follow-on design/construct contract was also prepared. The master planning report was completed in Kabul at the client's Afghanistan Area Office following the site surveys. 2003

Afghanistan National Army Hospital Master Plan, Kabul, Afghanistan. *U.S. Army Corps of Engineers, Middle East District.* Architect. Responsibilities included leading the planning team, site planning, and architectural design. Design team performed site surveys and building/infrastructure condition assessments for an aging Soviet-constructed hospital complex of 450,000 square feet in 14 buildings. 2004

Classroom Additions and Renovations, U.S. Military Academy, West Point, New York. *DDESS - Domestic Dependent Elementary and Secondary Schools.* Department Manager. Responsible for architectural design and document quality oversight, and development of schematic and advanced designs. Science classrooms were renovated at the Middle School. The existing roofing was replaced, and water damage to ceilings, walls, and exterior brick and stone work repaired. A new 7,500-square-foot six-classroom addition was also completed for the Elementary School. Due to the historic nature of the property, the work required approval by the New York State Historic Preservation Office, as well as coordination with the Military Academy's Master Plan. Antiterrorism/force protection design features included the addition of a parking lot with the appropriate building set-backs to meet the Corps design standards. Design team completed field investigations, conducted a design charrette with all project stakeholders, and prepared

design and construction documents, conceptual rendering, value engineering, and designated construction phase services for the 7,500-square-foot classroom addition to Elementary School Building 705-A. 2002

Landscape Design, Officer/Enlisted Billets at Millennium Village, Al Udeid Air Base, Qatar, Qatar. *U.S. Army Corps of Engineers, Middle East District.* Department Manager. Responsible for architectural design and document quality oversight. Design team provided landscape design services to provide shade pavilions and exterior courtyards with water misting systems and drip irrigation systems for the Officer/Enlisted Billets at Millennium Village, Al Udeid Air Base, Qatar. The four housing billets at Millennium Village each contain 96 suites. Using materials compatible with the Officer/Enlisted Billets, Design team designed the pavilion for the exterior courtyard to be used for informal gatherings and it is also well-lighted for evening use. A water distribution system was designed to provide misting to the exterior courtyard for personal comfort, along with a drip irrigation system, including pumping and storage tanks. The water feed for the drip irrigation system is a combination of treated grey water and potable water. The grey water collection and treatment system was designed to provide irrigation water and to discharge excess treated water. 2005

DSCC Special Purpose Battalion Operations Facility, Defense Supply Center, Columbus, Ohio. *U.S. Army Recruiting Command.* Department Manager. Responsible for architectural design and document quality oversight. Design team prepared project definition documents and design documents for the \$3,400,000, 11,400-square-foot building. 2006

Master Plan for Camp Zama Golf Course, Japan. *U.S. Army Corps of Engineers, Japan District.* Planner. Assisted in the development of a planning study for the Golf Course Master Plan (GCMP). 2005

U.S. Army Reserve Center OMS/AMSA/STRG, Greenville, South Carolina. *U.S. Army Corps of Engineers, Louisville District.* Architect. Responsible for initiating and development of architectural design, client and user interviews and programming, supervision of architectural staff, and coordination with engineering disciplines. Design team designed a new 88,500-square-foot multi-story Training Center, Organized Maintenance Shop/Area Maintenance Support Activity (OMS/AMSA), and unheated storage (STRG) to accommodate 600 reservists. The new structures consist of structural steel frames, masonry veneer exterior walls, and standing seam metal roofs. The OMS/AMSA houses office and administrative areas, tool and parts storage, 10 work bays, one welding bay, controlled and flammable storage, wash bay, and building support functions. One drive-through bay is serviced by an overhead traveling crane. The Training Center houses offices and administrative spaces, caged unit storage, classrooms, library, learning center, weapons simulation room, physical readiness area, engagement skills trainer, a COMSEC training room, an arms vault and armorer's room, an assembly hall, kitchen, and building support functions. The project also included paving design for on-site parking and storage for military vehicles and for privately owned vehicles. An integrated design approach was used to achieve a Gold SPiRiT sustainability rating. 2005

U.S. Army Reserve Center OMS/AMSA/STRG, North Canton, Ohio. *U.S. Army Corps of Engineers, Louisville District.* Architect. Responsible for initiating and development of architectural design, client and user interviews and programming, supervision of architectural staff, coordination with engineering disciplines. The U.S. Army Reserve required a Training Center and Organizational Maintenance Shop/Area Maintenance Support Activity (OMS/AMSA) facility for the 88th Reserve Support Command. Approximately 400 reservists work and train in the new Silver SPiRiT-certified, 61,344-square-foot complex. The Training Center and OMS/AMSA is comprised of a one-story L-shaped building with a two-story element at the connection of two wings. The Training Center portion of the complex includes offices and administrative spaces, caged unit storage, classrooms, library, learning center, physical readiness, engagement skills trainer, COMSEC training room, arms vault and armorer's room, assembly hall, kitchen, toilets, lockers, showers, and building support functions. The OMS/AMSA portion of the building includes office and administrative areas, tool and parts storage, 10 work bays, one welding bay, controlled and flammable storage, wash bay, and building support functions. One drive-through bay is serviced by an overhead traveling crane. 2004

Crew Readiness Center, 171st Air Refueling Wing, Pittsburgh International Airport (PIT), Coraopolis, Pennsylvania. *Pennsylvania Air National Guard.* Department Manager. Responsible for architectural design and document quality oversight. Under an IDIQ contract for architectural and engineering services, Design team designed a 3,000-gross-square-foot Crew Readiness Center that provides 2,500 square feet of living space for up to two four-person

aircrews. The facility is fully self-contained, permitting crews to be housed 24 hours a day while on alert status. The facility includes four bedrooms, men's and women's latrines and showers, laundry area, kitchen, pantry, dining area, crew lounge/recreational area, crew briefing and Supervisor of Flying (SOF) office, communications rooms, and mechanical room.

Combat Support Hospital and Dental Clinic Contingency Design Standards, CENTCOM Area of Responsibility, Worldwide, Worldwide. *U.S. Army Corps of Engineers, Middle East District.* Department Manager. Responsible for architectural design and document quality oversight. Design team and its subconsultant, IKM Architects Inc., provided planning, architectural, and engineering services for the conceptual design of a Combat Support Hospital and final design of a Dental Clinic for use anywhere in the CENTCOM Area of Responsibility. The designs were completed on a fast-track schedule and serve as standardized facilities for use during contingency operations. To the extent possible, the construction methods and materials are suitable and readily available for construction in the Middle East and Africa. 2008

Site Survey, Communication Center Buildings 209 and 229, Arifjan, Kuwait, Kuwait. *U.S. Army Corps of Engineers, Middle East District.* Architect. Provided site specific architectural solutions for needed HVAC upgrade to existing server room. Performed an on-site survey of the Communication Center, Buildings 209 and 229, in Arifjan, Kuwait, to evaluate the conditions of the existing buildings. A report was provided that discussed the structures uses for future design projects. 2008

Hospital and National Maintenance Center, Planning and Design Assistance, Afghanistan Engineering District (AED), Various Locations, Afghanistan. *U.S. Army Corps of Engineers, Middle East District.* Architect. Responsibilities included leading the planning team, site planning, and architectural design for numerous proposed buildings. Duties involved site and functional planning of 3,060-square-meter hospital additions at three remote sites in Afghanistan, including a 51-bed inpatient care with four-bed isolation ward, CT Scanner, and central staff offices and lockers. Under the management of the Afghanistan Engineer District and CETAC, a master planning team performed field surveys, planning, and design for solicitation documents for three design-build contracts for the Afghan National Army. Projects included three hospitals (Kandahar, Herat, and Gardez), a national maintenance center, gymnasiums, community centers, and other support facilities throughout Afghanistan. Design team provided expertise in architecture and landscape architecture, electrical, civil, and structural engineering, and cost estimating services. 2006

Readiness Centers and Field Maintenance Shops for PAARNG Stryker Brigade Combat Team, Erie (Cambridge Springs) and, Philadelphia, Pennsylvania. *US Property and Fiscal Office for Pennsylvania.* Department Manager. Responsible for architectural design and document quality oversight. Advised Project Architect and team of cost saving strategies that met or exceeded programmed and code-mandated project requirements and Pennsylvania Army National Guard design criteria. Design team developed the conceptual design and Design-Build RFP documents for the conversion of PAARNG's 56th Brigade to a Stryker Brigade Combat Team (SBCT). Key program components include two building types: Readiness Centers (RC) for the training of SBCT Soldiers and Field Maintenance Shops (FMS) for the maintenance and storage of a variety of military vehicles, including the Stryker military vehicle. The new Cambridge Springs (Erie) Armory included a 73,173-square-foot RC and 20,549-square-foot FMS with eight maintenance bays; together with the associated site development, the facilities were designed to house all elements of a 421-personnel unit. For consolidation of the Philadelphia units, a new site co-located a new 25,315-square-foot FMS with ten maintenance bays with a 75,078-square-foot RC. The new facilities were designed to meet a Gold SPIRiT sustainability rating. Note: Due to program changes after design, the Philadelphia facility was not constructed; instead, a new Stryker headquarters facility was located at Willow Grove Naval Air Station. 2004

Revitalization of Diamond U.S. Army Reserve Center, New Orleans, Louisiana. *U.S. Army Corps of Engineers, Louisville District.* Project Architect. Project conditions included general deterioration and hurricane-related destruction. Assisted in developing strategies for reuse and renovation of facility, which included adaptation of existing Reserve Center roofing, walls, and windows for new AT/FP and hurricane criteria. AT/FP response included tailoring the building hardening for the existing site in close proximity to a public roadway. Responsibilities included ultimate accountability to the client to deliver design and construction RFP documents, services, and products to the quality standards required by the contract including managing staff of all disciplines to provide a product that meets

design requirements; serving as client and user liaison; and performing all project management functions such as coordinating design disciplines, subcontracting of consultants, adhering to all codes and regulations, managing budget, schedule controls, and manpower allocations, and performing quality assurance/quality control. Design team developed Design-Build RFP Documents for the revitalization of a facility that was severely damaged by Hurricane Katrina. The project included the demolition of the 37,000-square-foot Fleming Reserve Center that was destroyed by the hurricane. The resulting facility, remodeled to suit the needs of the newly formed and consolidated Army Reserve Units, is an integrated, consolidated, regional, 54,300-square-foot training building, 6,600-square-foot vehicle maintenance shop, 12,600-square-foot warehouse, and 5,000-square-foot unheated storage building for training and mobilization and to provide for the storage, inspection, maintenance, and repair of combat and tactical vehicles and equipment associated with the regional deployment of Army Reserve units. 2006

Child Development Center, Oceana Naval Air Station, Virginia Beach, Virginia. *Naval Facilities Engineering Command, Atlantic Division.* Consultant. Developed LEED® sustainable design rating scorecard in response to project features. Design team provided design for a new 29,000 SF Child Development Center at Naval Air Station, Oceana. The facility, can accommodate 280 children, and features a commercial kitchen and laundry, a two-story reception lobby and other administrative spaces, along with outdoor play areas. 2007

Power Utility Systems Feasibility Study, Afghanistan National Army (ANA) Garrisons, Various Locations, Afghanistan. *U.S. Army Corps of Engineers, Middle East District.* Architect. Responsible for architecture, planning, and in-country team leader. Design team conducted on-site surveys and feasibility studies to evaluate the technical and economic viability of connecting eight different Afghan National Army (ANA) Garrisons to the nearest municipal or commercial power utility system(s). 2009

Stewart Newburgh Armed Forces Reserve Center, Newburgh, New York. *U.S. Army Corps of Engineers, Louisville District.* Senior Architect. Served as Design Charrette Leader, Sustainable Design Coordinator, and Lead Architect for this project, developing schematic building plans to obtain program needs of multiple users. Also produced and assembled all RFP documents. Design team developed Design-Build RFP Documents for an integrated, consolidated, regional 84,000-square-foot training facility, 16,200-square-foot vehicle maintenance shop, and 2,350-square-foot unheated storage building at Stewart Newburgh, New York. The center accommodates training and mobilization and provides for the storage, inspection, maintenance, and repair of combat and tactical vehicles and equipment associated with the regional deployment of Army National Guard and Army Reserve units. 2009

Defense Medical Logistics Center, Fort Detrick, Maryland. *U.S. Army Corps of Engineers, Baltimore District.* Department Manager. Responsible for architectural design and document quality oversight. Design team is the designer of record for the design-build delivery of a new Defense Medical Logistics Center at Fort Detrick, Maryland, for the Military Medical Logistics System. The three-story, 128,000-square-foot brick structure houses the top military medical planning agencies from the Army, Navy, Air Force, and Marines. Parking spaces for 310 vehicles were provided. Amenities include off-site stormwater retention pond, reforestation requirements, standing seam hip roof; chilled water HVAC system, dense tele/data systems including SIPRNET, sophisticated security systems, and AT/FP considerations. A design charrette and separate partnering session was held with all project stakeholders. 2009

Design and Planning Charrette Reports, Eastern Afghanistan. *U.S. Army Corps of Engineers, Middle East District.* Architect. Responsible for architecture, planning, and in-country team leader. Led the team to prepare a design and planning charrette report covering 31 Army and Air Force projects at 12 Forward Operating Bases (FOB). Projects consisted of new tactical runways; runway upgrades; rotary wing aircraft taxiways, aprons, and parking; expeditionary aircraft hangars; fueling systems, fuel distribution, and storage facilities; aviation maintenance facilities; dining facilities (DFAC); contingency housing; expansion of electrical distribution systems; ammunition supply points; office and administration facilities; and waste management complexes. The report was delivered on schedule to the client and its customers ARCENT and AFCENT. The purpose of the project was to establish initial planning and design requirements for the individual projects, quantify the scope of the facility requirements, provide the technical and cost parameters to justify funding, and provide a tool to solicit design-build proposals for the work. 2010

Design-Build Armed Forces Reserve Center, Bell, California. *U.S. Army Corps of Engineers, Louisville District.* Architect. Responsible for initiating and development of architectural design, client and user interviews and programming, supervision of architectural staff, coordination with engineering disciplines, verifying conformance to RFP and guideline requirements. Design team was the designer-of-record, working with the design-build contractor and the client, for the design-build delivery of a 238,500-square-foot Armed Forces Reserve Center complex, comprised of a 179,000-square-foot Administrative/Training facility, 44,000-square-foot Organizational Maintenance Shop, and a 15,500-square-foot Unheated Storage facility (AFRC/OMS/UHS) with all site features. The facility achieved LEED® NC v2.2 Silver Certified rating from the U.S. Green Building Council. Services provided include architecture, Structural Interior Design (SID) and Comprehensive Interior Design (CID), site/civil, all building engineering, and value engineering. 2007

Planning and Programming Reports, Bagram Air Base, Afghanistan. *U.S. Army Corps of Engineers, Middle East District.* Architect. Responsible for architecture, planning, and in-country team leader. Under an IDIQ contract, Design team prepared planning and programming (P&P) reports for 12 facilities. To establish facility requirements and scope, Design team's four-person project team conducted a one-week on-site visit and met with key stakeholders and functional experts. The team collected base master planning information, satellite photographs, available site utilities, and other information, as required, for each of the facilities. The purpose of the P&P reports was to provide complete and accurate project documentation to assist with planning future-year projects for design and construction. The completed reports provided a general scope of work for follow-on development of design-build specifications to be used for selection of a contractor for the final design and construction. 2010

O&S Facilities, Waterfront Development VE Study, Bahrain. *U.S. Army Corps of Engineers, Middle East District.* Architect. Responsible for architectural design. Under an architectural and engineering indefinite delivery contract, Design team performed a value engineering (VE) study of the concept design of the FY11 P-908 Operations & Support Facilities Waterfront Development project. The VE study included a three-day value methodology workshop incorporating a multidisciplinary team of Design team staff including a senior architect, engineers, and a cost estimator. 2010

Design of Consolidated Rigging Facility, Bagram Airfield, Bagram, Afghanistan. *U.S. Army Corps of Engineers, Middle East District.* Architect. Responsible for architectural design. Under an indefinite delivery contract, Design team provided architectural and engineering services for a design-bid-build project to construct a consolidated rigging facility at Bagram Airfield. Design team's tasks included performing planning and programming; preparing architecture, structural, site-civil, electrical, plumbing, and communication designs; coordinating and directing the mechanical and fire protection systems designs; and preparing final bid documents. 2011

Medevac Ramp Expansion and Fire Station Design-Relocation, Bagram Airfield, Bagram, Afghanistan. *U.S. Army Corps of Engineers, Middle East District.* Architect. Responsible for architectural design. Under an indefinite delivery contract, Design team provided complete architectural and engineering services for a design-bid-build project to relocate a fire station and widen a medevac ramp serving the base hospital at Bagram Airfield. Design team's tasks included performing planning and programming; preparing architecture, structural, site-civil, and communication designs; coordinating and directing the mechanical, electrical, plumbing, and fire protection systems designs; and preparing final bid documents.

Design of Three-Bay Fighter Aircraft Maintenance Hangar, Bagram Airfield, Bagram, Afghanistan. *U.S. Army Corps of Engineers, Middle East District.* Architect. Responsible for architecture and in-country team leader. Design team provided surveying, topographical mapping, and architectural and engineering services under an indefinite delivery contract to develop the complete building and site design for a three-bay, 36,600-square-foot fighter aircraft maintenance hangar to be located on the flight line at Bagram Airfield. Design team's tasks included conducting a site visit to confirm programming and identify site-facility constraints; producing site mapping; performing the architectural, site-civil, communications, and structural designs; and directing the mechanical, electrical, and fire protection system designs. 2011

Theater Support Facility, Bagram Airfield, Bagram, Afghanistan. *U.S. Army Corps of Engineers, Middle East District.* Architect. Responsible for architectural design. Design team provided complete architectural and engineering

services on a design-bid-build project to establish a secure facility at Bagram Airfield that will support the mission of a special air detachment in the Southwest Asia theater of operations. Design team's tasks included performing planning and programming; preparing architecture, structural, site-civil, and communication designs; coordinating and providing direction for the mechanical, electrical, plumbing, and fire protection systems designs; and preparing final bid documents. Primary components of the design included a consolidated command-and-control center (JOC), including a secure compartmented information facility (SCIF), a secure storage yard, and necessary building information systems. 2011

Engineering Support for Regional Command-East Afghanistan, Various Military Bases, Afghanistan. *U.S. Army Corps of Engineers, Middle East District.* Architect. Responsible for architecture, planning, and in-country team leader. Design team provided a multidisciplinary design team consisting of architects; civil, mechanical, electrical, and structural engineers; quality assurance personnel; CADD support personnel; and cost estimators to support the Regional Command-East (RC-E), 168th Engineer Brigade in Afghanistan. Assistance included the Forward-Operating Bases (FOB) and combat outposts in the eastern section of Afghanistan and Salerno, Shank, Sharana, Jalalabad, and Fenty. Project assignments included the design of the Sand Book Standards Facilities command outpost FOB; perimeter improvements for new and existing FOBs; asphalt roadways, bridges and culverts, and brick-and-mortar structures; concrete slabs for aircraft hangers; runways for rotary-wing and fixed-wing aircraft; airfield lighting; power generation and distribution; water-related initiatives, including purification and wastewater facilities of varying sizes; and mass drainage. 2009

Design-Build RFP Package for Munitions Storage Area at FOB Shindand, Herat Province, Afghanistan. *U.S. Army Corps of Engineers, Middle East District.* Architect. Responsible for architectural design. Design team prepared the design-build request for proposals (RFP) package for a munitions storage area to be constructed on the northeast side of Forward Operating Base (FOB) Shindand. A number of new air missions plan to beddown and require munitions/ammunition storage that cannot be met by existing infrastructure. The purpose of the project was to provide a munitions storage area compound to create an efficient operational flow and ensure safe operating conditions. The work consisted of all required site work and earthwork including construction of 24 paved munitions storage pads, pre-engineered metal buildings, paved roadways, drainage improvements, lightning protection, site lighting and security fence. Additionally, construction included all civil, mechanical, electrical, and communications infrastructure and other utilities necessary to produce a complete usable munitions storage area. 2010

Design-Build RFP Package for Passenger and Cargo Terminal at FOB Shindand, Herat Province, Afghanistan. *U.S. Army Corps of Engineers, Middle East District.* Architect. Responsible for architectural design. Design team prepared design-build request for proposals (RFP) documents for a Passenger and Cargo Terminal to be constructed on the east side of the existing runway at Forward Operating Base (FOB) Shindand. The facility consists of a cargo handling area, cargo warehouse, and passenger processing facility. These facilities will be for both inbound and outbound passenger and cargo processing. The improvements are offset to accommodate a future parallel runway and taxiway and provide access to and from the existing perimeter road and Strategic Airlift Apron. The project includes a passenger processing building, cargo processing building, concrete cargo yard, and access roads and pavements. Construction will also include installation of lighting, fencing, fire protection, utilities, supporting infrastructure, and all necessary site improvements required for completion. 2010

Readiness Center for PAARNG Stryker Brigade Combat Team, Hanover, Pennsylvania. *US Property and Fiscal Office for Pennsylvania.* Department Manager. Responsible for architectural design and document quality oversight. Design team developed the conceptual design and Design-Build RFP documents for the conversion of the PAARNG's 56th Brigade to a Stryker Brigade Combat Team (SBCT). Key program components include two building types: Readiness Centers (RC) for the training of SBCT Soldiers and Field Maintenance Shops (FMS) for the maintenance and storage of a variety of military vehicles, including the Stryker military vehicle. The existing 18,000-square-foot Hanover RC will be renovated in order to meet current building codes and to add 7,000 square feet of space, providing adequate administrative, training, and storage areas to accommodate a unit strength of 85. The new facility was designed to meet a LEED®-Certified sustainability rating. 2007

Design-Build Request-for-Proposal Package Development for Unmanned Aerial Vehicle Apron and Support Complex at FOB Shindand, Herat Province, Afghanistan. *U.S. Army Corps of Engineers, Middle East District.*

Architect. Responsible for architectural design. Design team developed complete design-build request-for-proposal (RFP) packages, including plans, specifications, design analysis-basis of design, and construction cost estimates, for use in bid documents for a variety of new facilities at Forward-Operating Base (FOB) Shindand and FOB Dwyer. RFP package development included an 82,200-square-foot special operations forces intelligence, surveillance, and recon apron and 20,500-square-foot dedicated support complex to be constructed on the east side of the airbase runway. As required, Design team's designs addressed elements including Portland cement concrete and bituminous pavement, hangar foundations, building floor plans, HVAC, fire protection, drainage, high-mast lighting, electrical generation, communications distribution, utility service, sanitary service, stormwater management, and non-potable water distribution infrastructure. 2010

Rehabilitation of the Ernie Pyle U.S. Army Reserve Center, Fort Totten, Queens, New York. *U.S. Army Corps of Engineers, Louisville District.* Senior Architect. Responsible for project architecture and technical project management. Assisted in development of multiple bid alternatives to allow selection of specific project components to match project funding. Assisted building contractor and users to develop strategies to allow addition of a three-story elevator and entire-building fire protection within an existing building with continual occupancy. Design team was tasked to provide Design-Bid-Build documents for the renovation of a 41,312-square-foot U.S. Army Reserve Center, the addition of a 4,994-square-foot Unheated Storage Building, and the addition of MEP and POV parking. The renovation included storage and office areas on two floors, electrical, mechanical, plumbing, and fire protection on all three floors, as well as vault and elevator construction and asbestos removal. Renovation included compliance with Anti-terrorism and Force Protection Requirements, as well as Handicapped Accessibility. 2012

Site-Adapt Design for Afghanistan National Army Arch-Span Kandaks, Various Locations, Afghanistan. *U.S. Army Corps of Engineers, Middle East District.* Architect. Responsible for architectural design. Design team provided architectural and engineering services under an indefinite delivery contract to develop final site-adaptable designs for facilities to house, feed, train, and maintain standard Afghanistan National Army kandaks (battalions) using single-radius arch-span building technology. The technology enables on-site fabrication of steel panels from coil steel using a mobile factory that bends and shapes the steel into the desired final dimensions. After shaping, adjacent identical panels are seamed together, lifted into position, and erected to form the exterior shell of the building. 2012

Design-Build Request-for-Proposal Package Development for Munitions Storage Area (TO 0033), Al Udeid Air Base, Qatar. *U.S. Army Corps of Engineers, Middle East District.* Senior Architect. Responsible for architectural conceptual and final design development, and site planning consultation. Work included on-site observation and consultation with users. Responsible for drawings and specifications to support architectural design. Design team developed the design-build request-for-proposal package for the U.S. Air Force Munitions Storage Area (MSA) Complex build-out at Al Udeid Air Base, Qatar. The MSA complex consists of Aboveground Magazines (AGM), Munitions Assembly Sunshades, a Munitions Administration Facility, Precision-Guided Munitions Maintenance Facility, AGM with Administration Facility, Trailer Maintenance Facility, Entry Control Point, and Guard Shack; access roads; and all supporting elements, including fencing, lighting, site work, utility infrastructure, communications, fire protection and suppression systems, mass notification systems, and force protection measures to make the facilities complete and usable. Work also involved development of the Department of Defense Explosives Safety Board Preliminary Explosive Site Plan submission and programming and development of specific spaces to conform to sensitive compartmented information facilities (SCIF) criteria. Bid options were developed to allow the client to select add-ons, depending on the bid construction costs, for the base elements of the project. 2012

Annual Training Mobilization Barracks Design-Build RFP Preparation, Fort McCoy, Wisconsin. *U.S. Army Corps of Engineers, Louisville District.* Senior Architect. Responsible for conceptual architectural design of a two-story mobilization barracks patterned closely after standard ORTC designs as developed by USACE Savannah District and administered by the client. The process included adaptation of the design to allow four of eight 20-person barracks units to be segregated from the others to allow fewer than 25 percent of available beds to be assigned to female trainees. Fort McCoy also required development of special directives for designers-of-record/Contractors to allow winter shutdown of the facility. Design team provided architectural and engineering services to prepare plans, specifications, and other supporting documents necessary for a design-build request for proposals (RFP) for construction of a standard Annual Training Mobilization Barracks (ATMB) designed to meet the Green Building Council's LEED® Silver Rating. Design team facilitated design charrettes, initiated value engineering services;

developed conceptual drawings and specifications for the RFP; and prepared quantity and cost estimates, a draft quality control plan, and a proposed construction schedule for the project. 2012

NCO Academy Design-Build RFP Preparation, Fort McCoy, Wisconsin. *U.S. Army Corps of Engineers, Louisville District.* Senior Architect. Responsible for conceptual architectural design of a two-story Academy to meet user program requirements within the context of the existing NCO Academy Phase I facilities. Design included development of Room Data Sheet documents patterned on Army Reserve Center design guidance documents. Data Sheet document advised designers-of-record on needed criteria for room finishes, expected occupants, cooling and lighting loads, normal and secure communications and other criteria. Design team provided architectural and engineering services to prepare plans, specifications, and other supporting documents necessary for a design-build request for proposal (RFP) for construction of Phase II of a Non-Commissioned Officer Academy, which will be designed to meet the Green Building Council's LEED® Silver Rating. Design team facilitated design charrettes, initiated value engineering services; developed conceptual drawings and specifications; and prepared quantity and cost estimates, a draft quality control plan, and a proposed construction schedule. 2012

Air Force P-341 Unspecified Minor Military Construction Design Program, Bagram and Kandahar Air Fields, Afghanistan. *USAFCENT.* Senior Architect. Responsible for architectural conceptual and final design development. Work included on-site observation and consultation with users. Responsible for drawings and specifications to support architectural design. Design team developed design plans and specifications for various support facilities at Bagram and Kandahar airfields for the Air Force's P-341 Unspecified Minor Military Construction program. Design team's tasks included site-civil design, utility connection, architecture, structural modeling, building systems design, construction cost estimate development, contractor request-for-information response, and construction schedule development. 2012

VE Based Charrette, Bahrain. *Lindbergh & Associates, LLC.* Architect. Assisted in VE charrette to develop value-based alternatives for the building and site design team. Included architectural planning of administrative facility. 2011

Arch-Span Field Investigation, Multiple ANA base locations, Afghanistan. *U.S. Army Corps of Engineers, Middle East District.* Senior Architect. Conducted field investigation to validate installed conditions of spray insulation and insulation thermal and ignition barrier coatings at various sites in Afghanistan. Obtained field samples of coated insulation and conducted thickness testing. Advised Government customers on the suitability of conditions found for the required purpose. Performed several outbriefs to Field and District commanders at conclusion of study. Prepared summary report with recommendations for further action. Team members were awarded commander's coin for field study. 2013

Space Planning and Security Upgrades, Chase Hall, U.S. Coast Guard Academy, New London, Connecticut. *U.S. Coast Guard.* Architect. Design architect responsible for site observation and development of architectural design documents for security of Chase Hall. Design team provided engineering services for a campus-wide space management assessment and for security upgrades to the cadet barracks and off-campus military family child development center (CDC). Campus space management tasks included conducting space surveys of buildings, updating and creating new building information models (BIM) and site plans, and using web-based planning tools to integrate new data into the BIMs. Barracks security upgrades involved developing a comprehensive plan to secure access into living quarters and administrative spaces, integrating the proposed new access control system with the existing academy life safety systems, and preparing construction documents. CDC security evaluations involved conducting a site visit; reviewing operational procedures, including parents' child pick-up and drop-off practices; interviewing staff on safety issues; and developing a report. 2013

Design-Bid-Build and Design-Build Packages for Airfield Facilities and Infrastructure, Cairo West Air Base, Cairo, Egypt. *U.S. Army Corps of Engineers, Middle East District.* Senior Architect. Responsible for architectural design for several fully documented buildings and design management of architectural design-build documentation for numerous other buildings. Responsibilities included on-site consultation with Egyptian Air Force personnel observation of existing conditions at subject base and intended results at model base. Design team developed design-build request for proposal (RFP) documents and served as designer of record on select full-design packages,

including Maintenance Hanger J, for the construction of facilities and infrastructure to support F-16 Fighting Falcon jet fighter aircraft deployment at Cairo West Air Base. Design team's services included coordinating the on-site planning charrette, developing architecture and building system designs, preparing design submittals, and conducting design reviews. 2011

Design of Central Issue Facility, Fort McCoy, Wisconsin. *U.S. Army Corps of Engineers, Louisville District.* Senior Architect. Responsible for architectural design of subject facility including management of architects and technical personnel, and on-site consultation with users at several programming and review meetings. Design team was the designer of record for the design-bid-build delivery of an approximately 62,553-square-foot, large-sized central issue facility (CIF) to expedite the shipping and receiving, distribution, processing, and exchange of soldier equipment. The project included ancillary site improvements and demolition design for five buildings. Design team's services included architecture, surveys, environmental investigation, geotechnical investigation, all site and building engineering, cost estimating, value engineering, and LEED® certification administration. 2013

Design of U.S. Army Reserve Center Renovation and Expansion, Homewood, Illinois. *U.S. Army Corps of Engineers, Louisville District.* Senior Architect. Responsible for preliminary architectural design. Conceptually planned existing and new spaces to assign low / no occupancy uses to existing building areas within close proximity to AT/FP threats of unsecured entry drive. Proposed nuanced design adapting existing building themes and forms within proposed addition. Assigned over-height and 'wet' areas from the program to new project areas to minimize impact to existing facility. As designer of record, Design team provided architectural and engineering services for the renovation of a 400-member U.S. Army Reserve Center (ARC) and construction of two single-story additions totaling 35,694 square feet—a 34,294-square-foot Training Building and a 1,400-square-foot ancillary structure—along with a 3,500-square-foot Unheated Storage Building. The new construction includes a 22,000-square-foot parking area for military equipment and 140 parking spaces for privately owned vehicles. Tasks were performed under an indefinite quantity-indefinite delivery engineering agreement. Design team designed the training facility to meet LEED® Silver certification. Design team's services included architecture, surveys, environmental and geotechnical investigation, all site and building engineering, cost estimating, value engineering, and LEED® credit template documentation. Administrative and training 60,500-square-foot building. This project has achieved LEED certification. 2011

Renovation and Upgrade Support for Facilities and Base-Wide Systems, Joint Base Balad, Iraq. *U.S. Air Force Material Command.* Technical Manager. Performed architectural design and coordinated engineering disciplines. Design team provided architectural and engineering services for the renovation and reconstruction of facilities at the base. Design team's services included preparation of design and construction documents for the majority of the facility renovations and preparation of detailed design-build request for proposal documents for the base prime power rehabilitation and upgrade, the navigational aid systems, and the base-wide electronic switching system and communications management system. 2014

In-Country Design Support at Balad. *KS International.* Field Supervisor. Performed architectural design and coordinated engineering disciplines. Served as the primary design professional contact with Sullyport construction personnel during construction. One year assignment on site at Balad Airbase, Iraq 2015-2016

USAFCENT Headquarters Building 1130 Repairs, Shaw Air Force Base (SSC), Sumter, South Carolina. *Bristol Environmental & Engineering Services Corporation.* Technical Manager. Performed architectural design and coordinated engineering disciplines. Primary design professional contact with Air Force users during programming and design. Work included programming and design for Swing Spaces for Shaw B1130 to be occupied during construction. 2014