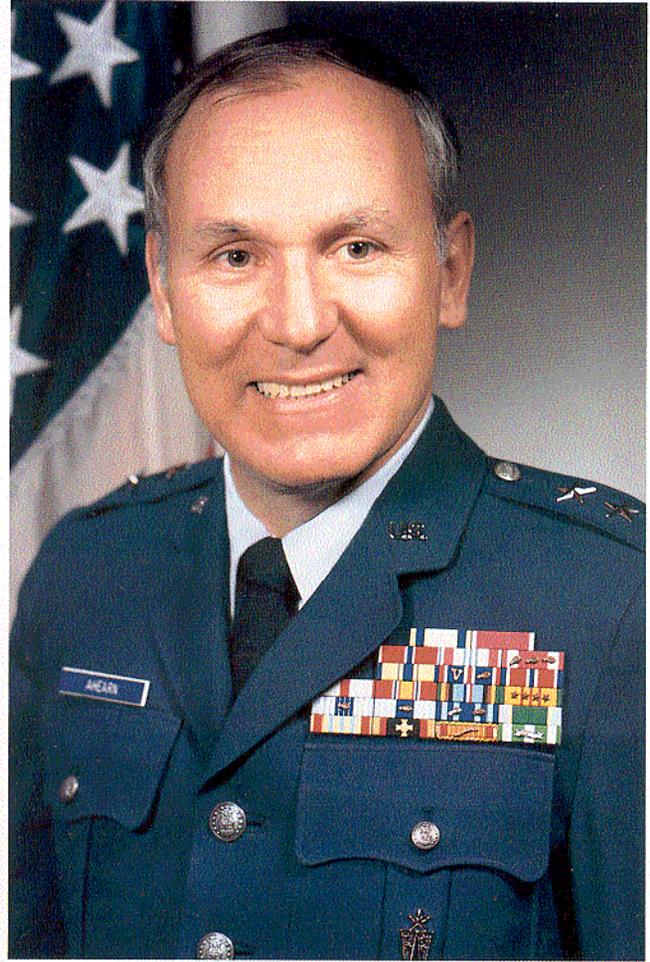




United States Air Force

Design Awards Program

1988 Annual Report



From the Director

These award winners represent the level of quality which we seek to obtain in all of our projects. They set the standard of excellence for improving our installations so we can carry out the Air Force mission more effectively. These winners clearly demonstrate we have the ability to influence the character and quality of our "hometown installations". They emphatically foster an image of the Air Force as a powerful, forward looking and highly technical aerospace force committed to peace through strength. We need to build on the success of these projects by capturing the team spirit which led to their design excellence and apply these principles to all of our base improvement efforts.

Front Cover:

Top: Space Command Headquarters
Peterson Air Force Base, Colorado

Left: Billeting Office Renovation
Offutt Air Force Base, Nebraska

Right: Physical Fitness Center
Travis Air Force Base, California

Back Cover: Billeting Office Renovation
Offutt Air Force Base, Nebraska

Joseph A. Ahearn
JOSEPH A. AHEARN
Major General, USAF
Director of Engineering and Services

Background

This is the thirteenth year that the United States Air Force Design Awards Program has recognized and promoted design excellence. The award categories have been expanded this year from two to five categories. These categories include Completed Projects, Concept Projects, Urban Design and Planning, Interior Design and Small Projects.

Architectural and engineering projects were reviewed by a distinguished jury composed of two members of the American Institute of Architects, two members of the Society of American Military Engineers and one representative of the American Society of Civil Engineers. Urban design and planning projects were juried by two professional planners from Headquarters United States Air Force. The interior design jury included an interior designer from the Library of Congress and an interior

designer and a registered engineer from Headquarters United States Air Force.

The Air Force sets no limitations on the number or type of projects that can be recognized each year. Although specific award categories have been established, awards may be given as well for design excellence in the fields of engineering, landscape architecture and energy conservation.

This report also includes USAF award winning projects from the 1988 Department of Defense Design Awards Program, a biannual program recognizing outstanding architecture, engineering and landscape design for projects developed for the military services. Air Force projects received three of the eight awards, plus the coveted Blue Seal Award for the best overall project.

1988 USAF Design Award Program Award Winners

Completed Project Honor Awards

Physical Fitness Center
Travis Air Force Base, California

Space Command Headquarters
Peterson Air Force Base, Colorado

Completed Project Merit Awards

Composite Medical Facility Addition
Carswell Air Force Base, Texas

C5-A Squadron Operations Facility
Kelly Air Force Base, Texas

Billeting Office Renovation
Offutt Air Force Base, Nebraska

Composite Squadron Operations Facility
Truax Field, Wisconsin

Urban Design and Planning Merit Award

Defense Language Institute Master Plan
Lackland Air Force Base, Texas

Concept Project Honor Award

Logistical Systems Operations Center
Wright-Patterson Air Force Base, Ohio

Concept Project Merit Awards

Consolidated Academic Complex
Brooks Air Force Base, Texas

Aircraft Modification Facility Addition
Wright-Patterson Air Force Base, Ohio

Interior Design Honor Awards

Officers Club Renovation
Bolling Air Force Base, D.C.

Billeting Office Renovation
Offutt Air Force Base, Nebraska

Interior Design Merit Award

Executive Dining Room Renovation
Wright-Patterson Air Force Base, Ohio

1988 Department of Defense Design Awards

Design Excellence for Welfare & Recreation/Blue Seal Award

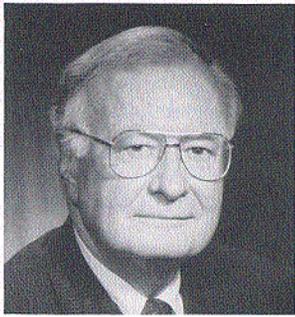
Visitor Center
United States Air Force Academy, Colorado

Design Excellence for Engineering & Industrial Facilities

Aircraft Maintenance Facility
Offutt Air Force Base, Nebraska

Design Excellence for Unaccompanied Personnel Housing

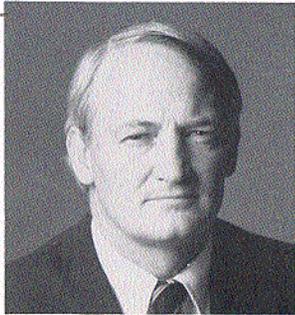
Unaccompanied Enlisted Personnel Housing
Fairchild Air Force Base, Washington



Mr. William J. Carroll is Chairman of the Board of James M. Montgomery, Consulting Engineers, Inc., a Pasadena, California environmental engineering firm. Mr. Carroll has over 40 years of experience in the environmental engineering field with major emphasis on water and waste water systems planning and design. Projects prepared under his supervision include major sewer systems for San Diego and other California municipalities, the planning and design of five water districts in the Philippines and a major sewage system expansion for Manila, Philippines.

Mr. Carroll has been the president or director of numerous professional societies and civic organizations. He was honored as the Southern California Engineer of the Year in 1983.

Mr. Carroll has Bachelor of Science and Master of Science in Civil Engineering degrees from the California Institute of Technology and is a registered civil engineer. He is a Fellow of and President of the American Society of Civil Engineers and represented the ASCE on the jury.



Mr. Dwight E. Holmes is one of the founding principals of Rowe Holmes Hammer Russell Architects, Inc. of Tampa, Florida. His primary role has been the cultivation of the high standards of professional service for which the firm is known. He also serves as principal-in-charge for major projects.

Mr. Holmes received the Florida Central Chapter AIA Medal of Honor for Design Excellence in 1980, the Florida Association of the AIA Medal of Honor for Design in 1982 and was elected to the College of Fellows of the American Institute of Architects in 1983.

He holds a Bachelor of Science degree from Georgia Institute of Technology and a Bachelor of Architecture degree from North Carolina State University. He is a registered architect in the State of Florida and has served on numerous professional and civic committees. Mr. Holmes represented the AIA on the jury.



Mr. William R. Lawson is the Vice President and Office Director of the Washington, D.C. office of HTB, Inc., an international architectural-engineering-planning firm ranked among the nation's top 200 design firms. He oversees operations and provides leadership in firm management and in project development, particularly on major construction, renovation and restoration projects.

Previous experience includes serving as Chief Architect and as Assistant to the Public Building Service Commissioner of the General Services Administration. In addition to providing broad program management for a billion dollar, capital improvement program, he was project manager for the Van Ness Campus of the University of the District of Columbia. He received the GSA Award for Exemplary Leadership in 1982.

Mr. Lawson has a Bachelor of Architecture degree from Howard University and is a registered architect. He represented the Society of American Military Engineers on the jury.



Mr. James L. Nagle has been a principal since 1966 of Nagle, Hartray & Associates, Ltd., Architects/Planners. This Chicago firm has received numerous design awards from professional organizations and publications.

Mr. Nagle served as an instructor of design at the University of Illinois at Chicago and was President and on the Board of Trustees at the Chicago School of Architecture. He has taught, lectured and exhibited extensively, has published several architectural journals, and has served on numerous design award juries.

Mr. Nagle holds a Bachelor of Architecture degree from the Massachusetts Institute of Technology and a Master of Architecture degree from the Graduate School of Design, Harvard University. He was elected to the College of Fellows of the American Institute of Architects and represented that organization on the jury.



Mr. Harry P. Rietman is a professional structural engineer registered in the Commonwealth of Virginia. He retired from the Senior Executive Service in 1985 after 37 years of government service. He served the last 12 years as the Associate Director of Engineering and Services, Headquarters United States Air Force.

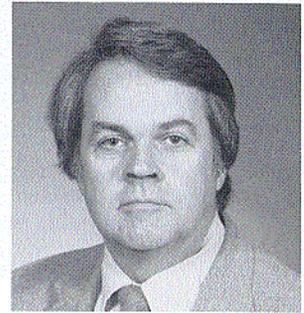
Mr. Rietman has Bachelor of Architectural Engineering and Master of Architectural Engineering degrees from Virginia Polytechnic Institute. He is former National Director and a Fellow of the Society of American Military Engineers and represented SAME on the jury.

Jury - Architecture and Engineering

Mr. Philip H. Clark is a professional urban and regional planner with over 20 years of experience in the private, academic and public sectors. He was instrumental in the development of the Air Force base comprehensive planning program and is the program manager of that program for the Planning Branch, Installation Development Division, Directorate of Engineering and Services, Headquarters United States Air Force in Washington, D.C.. He also represents the Air Force on a multi-agency committee on master planning in the federal government.

Prior to his employment with the Air Force, Mr. Clark served as Chief of Air Transportation Planning for the Metropolitan Washington Council of Governments.

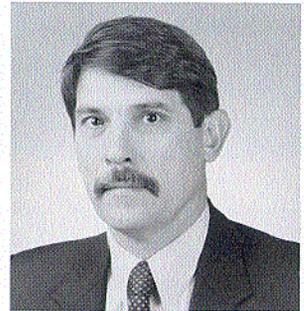
Mr. Clark has Bachelor of Architecture and Master of Urban and Regional Planning degrees from Cornell University and is a charter member of the American Institute of Certified Planners.



Mr. Edward J. Bakunas is Chief of the Planning Branch, Installation Development Division, Directorate of Engineering and Services, Headquarters United States Air Force. He is responsible for policy and oversight of base comprehensive planning activities at over 130 major installations.

He was instrumental in the development of the Air Force Planning Assistance Team program and previously directed major command planning activities at Headquarters Strategic Air Command and at Headquarters United States Air Force Europe.

Mr. Bakunas has a Bachelor of Science degree in Landscape Architecture from Pennsylvania State University.

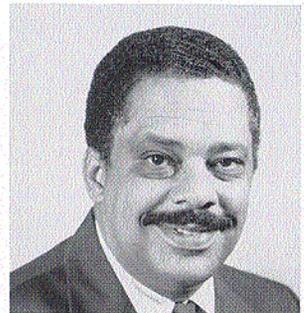


Jury - Urban Design and Planning

Mr. William A. Brown, Sr. is Chief of the Facilities Branch, Installation Development Division, Directorate of Engineering and Services, Headquarters United States Air Force in Washington, D.C.. He is responsible for the development of architectural, interior design and engineering policy and design standards for most Air Force facilities.

Mr. Brown has been employed by the Air Force for over 20 years. He is the Air Force representative to the National Academy of Sciences Building Research Advisory Board and is a Fellow of the Society American Military Engineers. He was made an Honorary Member of the American Institute of Architects in 1987 for outstanding contributions to the architectural profession through significant improvements to the quality of military facilities.

Mr. Brown has a Bachelor of Science in Architectural Engineering degree from Hampton Institute and is a registered professional engineer.



Ms. Janice A. Nielsen is an interior designer for the Facilities Branch, Installation Development Division, Directorate of Engineering and Services, Headquarters United States Air Force in Washington, D.C.. She is in charge of the Air Force interior design program and establishes interior design policy for Air Force facilities.

Ms. Nielsen has extensive private and government experience as an interior designer and served as head of the interior design program for United States Air Force Europe.

She has a Bachelor of Science in Interior Design degree from Purdue University and did graduate work in architecture at Harvard University. Ms. Nielsen is a professional member of the Council of Federal Interior Designers and is an affiliate member of the American Institute of Architects.



Ms. Kathy L. Baxter is an environmental designer and provides interior design and space planning services for the Library of Congress in Washington, D.C.. She has over 15 years of experience with the federal government, including planning, designing and coordinating requirements for personnel support facilities for the United States Navy, Air Force and Marine Corps; directing an interior design program for Yokosuka Naval Base in Japan; and developing space planning and interior design projects for the Nuclear Regulatory Commission.

Ms. Baxter has a Bachelor of Science in Interior Design degree from the University of Maryland. She is president of the Council of Federal Interior Designers.



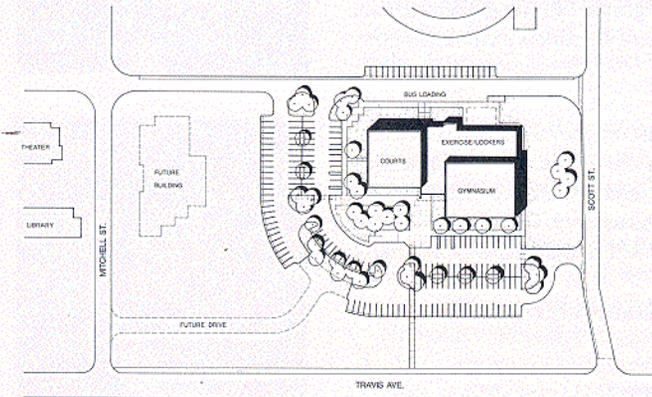
Jury - Interior Design

Completed Project

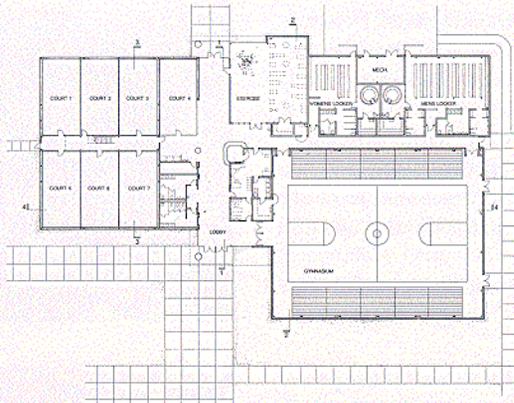
Honor Award

Physical Fitness Center
Travis Air Force Base, California

Architect: Nacht & Lewis Architects



SITE PLAN



FLOOR PLAN

The new Physical Fitness Center is sited near base housing and other personnel support facilities and serves as the hub of fitness and recreational programs for the base. A running track and a football/soccer field will be added in the future to the west of the new building.

The building contains seven competition-size racquetball courts, an exercise room, supporting locker/shower rooms with spas and saunas, and a 1,000 seat gymnasium suitable for basketball, wrestling, volleyball and special events such as Change of Command ceremonies, musical presentations and speeches. An equipment issue desk is located at the intersection of the north/south "public" circulation path and the east/west "participants" circulation path to permit the recreation staff to monitor activities.

The building massing is uncluttered and attractive and reflects the simple shapes of the gymnasium, courts, locker components and the interconnecting circulation paths. The major exterior walls are constructed of tilt up concrete panels and masonry and are covered with an exterior insulation/finish system. This construction takes advantage of the thermal mass effects of the concrete and masonry exterior walls and provides a low-maintenance finish. High-level, translucent wall panels introduce diffused natural light into the gymnasium during the day and present a striking, glowing image after dark.

AFRCE: Western Region

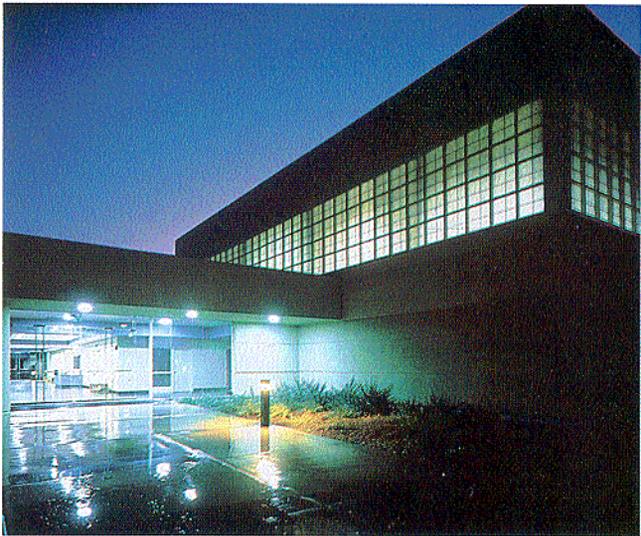
Command: Military Airlift Command

Base Engineering: 60th Civil Engineering Squadron

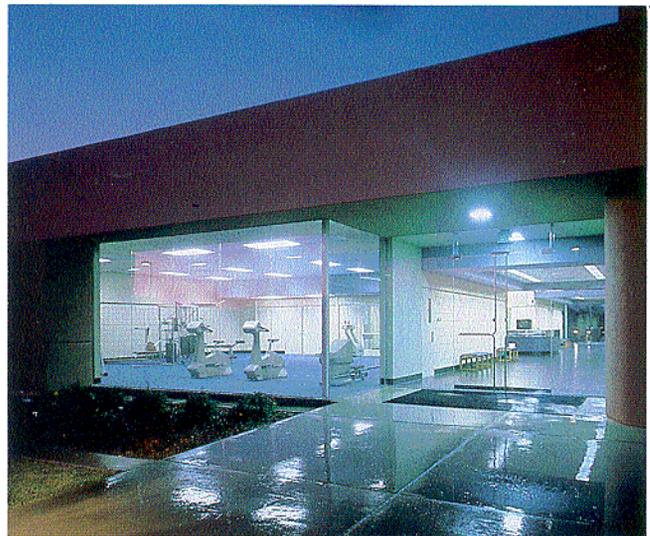
*Design Agent: Naval Facilities Engineering Command
Western Division*



EXTERIOR



FRONT ENTRANCE



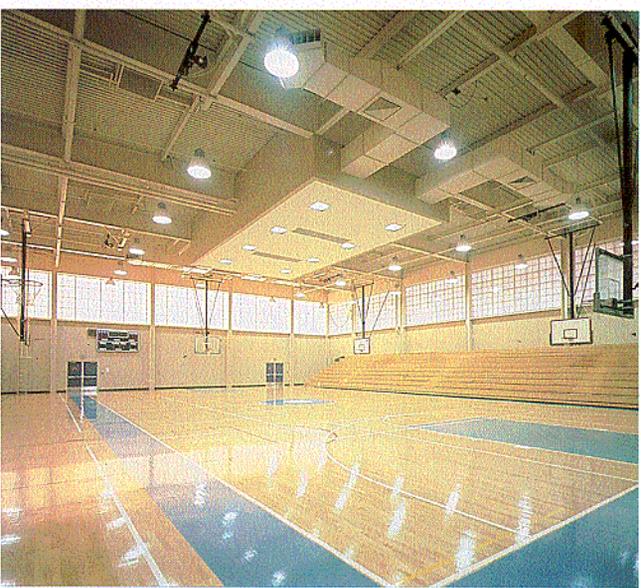
REAR ENTRANCE



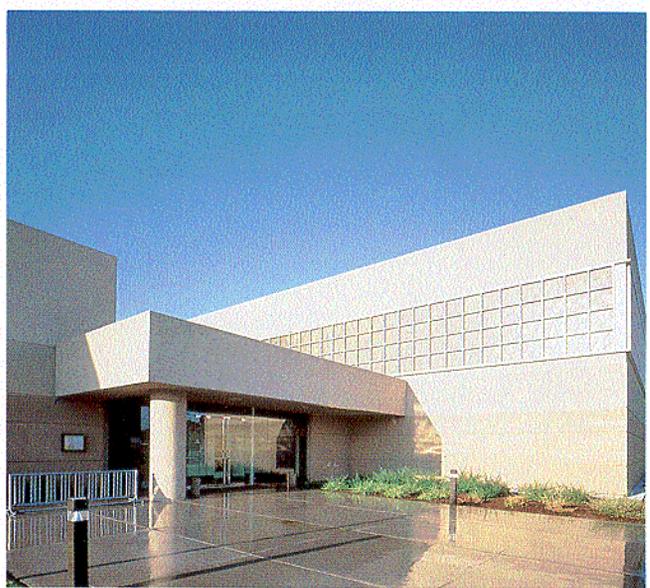
GALLERY ABOVE RACQUETBALL COURTS



LOBBY AND EQUIPMENT ISSUE DESK



GYMNASIUM



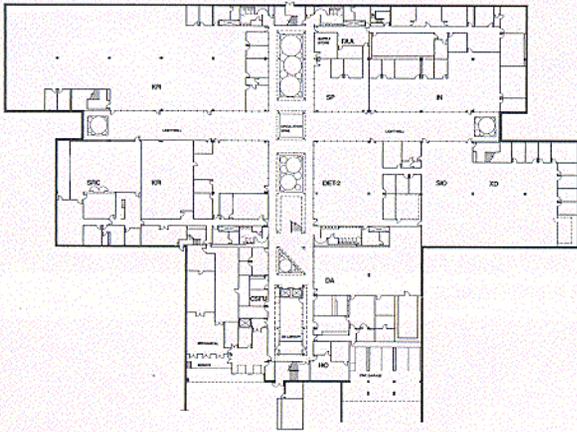
FRONT ENTRANCE

Steve Simmons

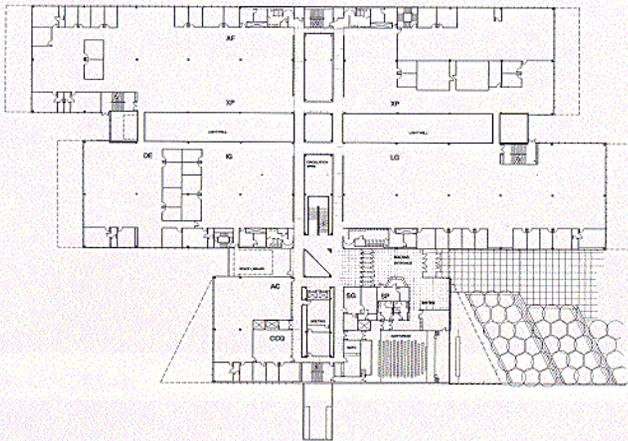
Honor Award

**Space Command Headquarters
Peterson Air Force Base, Colorado**

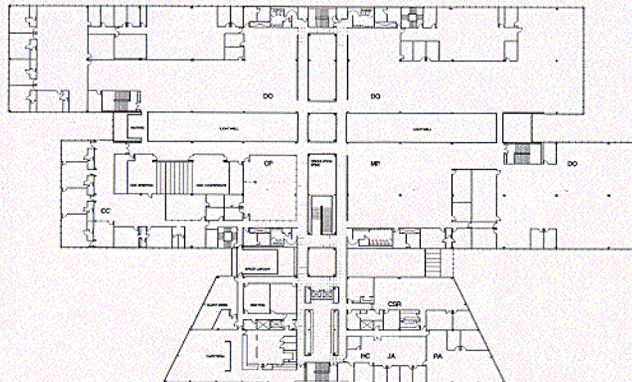
Architect: Peckham Guyton Albers & Viets, Inc.



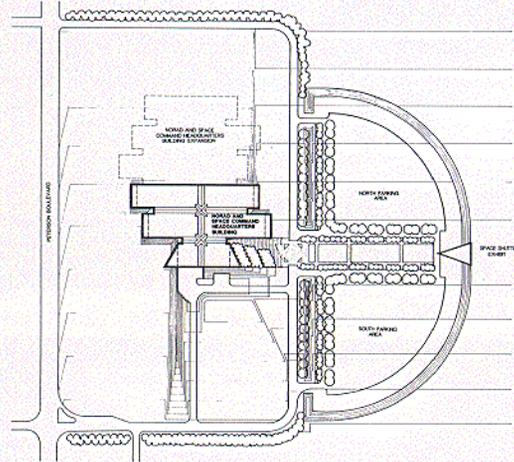
LEVEL 1 FLOOR PLAN



LEVEL 2 FLOOR PLAN



LEVEL 3 FLOOR PLAN



SITE PLAN

The design of the new headquarters building for the United States Space Command is exciting and different from most Air Force architecture. The strong horizontal lines articulated by the deep-ribbed, stainless steel cladding and the dramatic cantilevers of this 250,000 square foot building express the boldness and high-tech image of the newest command in the Air Force. This bold image is further emphasized by the strong building massing, by the use of finish materials significantly different from the dark brown brick predominant on the base, and by the isolated siting on an open plateau.

The building is a three-story structure with the lowest level concealed by earth berms. Major orientation is along an east-west axis to take advantage of passive solar energy gains and of the dramatic views of the nearby mountains. A plaza with landscaped terraces and tree-lined pedestrian walkways lead from the parking to the single point of entry on the east.

The stainless steel cladding is highly cost-effective in terms of first cost, life cycle cost and energy conservation. This cladding and the silver-blue, high-performance reflective glazing provide a constantly changing palette of light and color.

A major, three-story light court topped with pyramid shaped skylights serves as the major circulation spine between the 50,000 square foot office modules. Similar light courts intersect the central spine and lead into the office modules. These light courts introduce natural light into the center of the building and provide visual relief, spatial orientation and a sense of place.

Numerous energy conservation techniques are incorporated into the building siting, architectural design and mechanical systems design to significantly reduce the annual energy use.

AFRCE: Central Region

Command: United States Space Command

Base Engineering: 1003rd Civil Engineering Squadron

Design Agent: Corps of Engineers/Omaha District



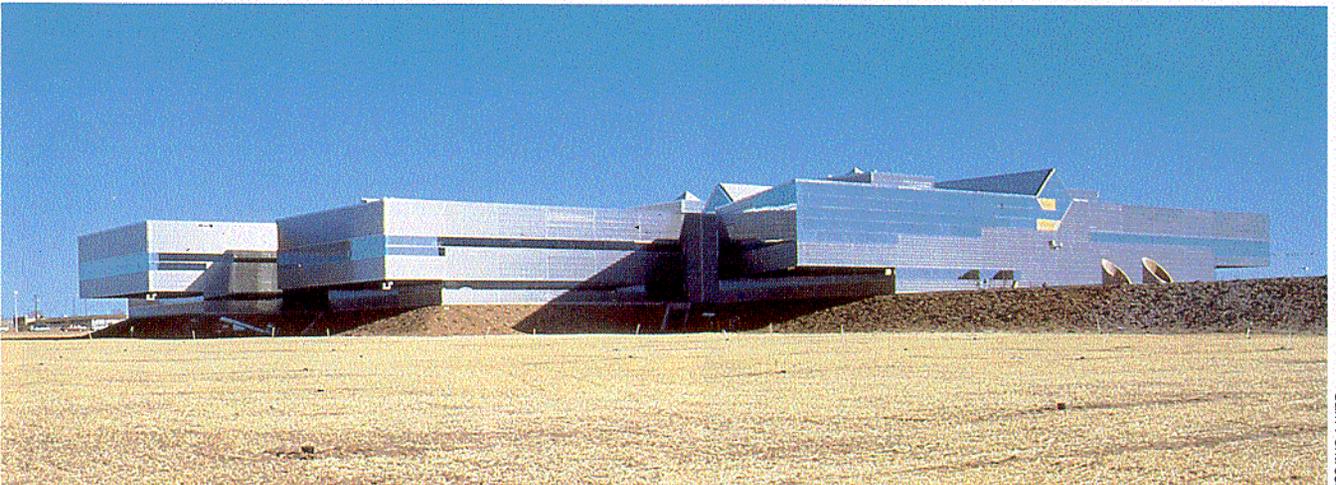
AUDITORIUM



INTERIOR LIGHT COURT



ENTRANCE PLAZA

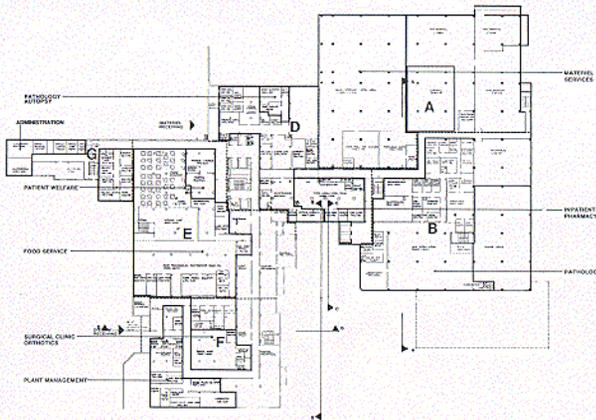


EXTERIOR

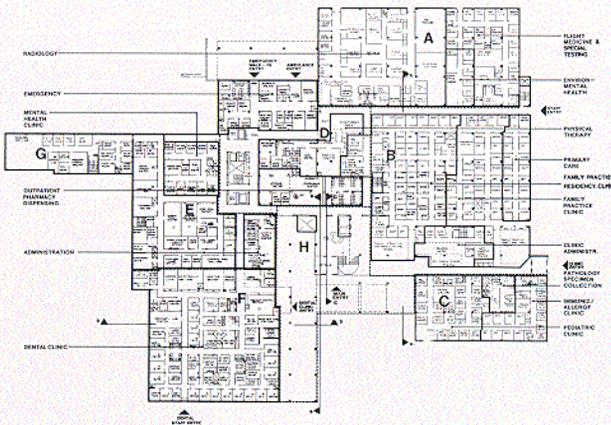
Merit Award

Composite Medical Facility Addition Carlswell Air Force Base, Texas

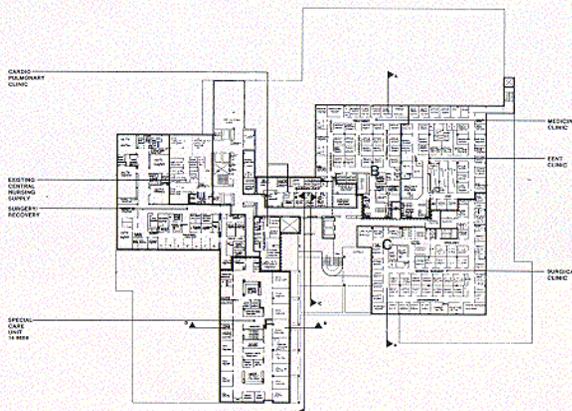
Architect: Hansen Lind Meyer Inc.



LEVEL G FLOOR PLAN



LEVEL 1 FLOOR PLAN



LEVEL 2 FLOOR PLAN

This addition and renovation project enables the Composite Medical Facility and Dental Clinic to provide up-to-date, responsive health care and presents a striking new image which is reflective of the expansion and improvement of services.

The addition expands the outpatient clinics, dental clinic, inpatient units, diagnostic and treatment elements, support services and mechanical spaces. The renovation covered most of the existing building, including eight operating rooms and the replacement of most of the HVAC system.

Program objectives successfully addressed by this project included separation of outpatients, staff and visitors from inpatient traffic and the related flow of clean and soiled materials; separation of the pediatric, obstetric, mental health and dental clinics from other outpatient clinics; separation of emergency service traffic from other traffic; and locating the emergency services close to radiology and pathology services.

The fiberglass skylight cascades over the main entrance and atrium lobby and creates the first favorable impression of the facility. This entrance serves both hospital and clinic traffic and opens into a multi-story atrium lobby which provides a strong focal point and a more interesting environment than a traditional hospital. The atrium lobby roof is glazed with tinted, insulated translucent panels for energy conservation and for diffusion of natural light.

Precast concrete was selected for the exterior walls of the addition to complement the architecture of the existing medical facility. The existing exterior concrete walls were refinished with a sealer/ color coating for compatibility and for better maintainability.

All windows in the completed building have bronze tone anodized aluminum frames with reflective double glazing. Integral horizontal venetian blinds match the color of the window frames and provide privacy and solar control. Window openings in the existing building were reduced by approximately 35 percent to improve energy conservation.

The floors of the main lobby and the corridor link to the south entrance are finished in quarry tile. This tile is used to visually direct patients and visitors to the elevator lobby, information desk and admitting area and was selected for its durability, ease of maintenance and slip resistant surface. Carpeting was chosen for the waiting areas, corridors, offices and exam rooms to reduce noise levels and to create a non-institutional atmosphere.

New landscaping and additional trees have been planted to define entrance driveways, to screen parking lots and to add human scale and visual interest to the building.

AFRCE: Central Region

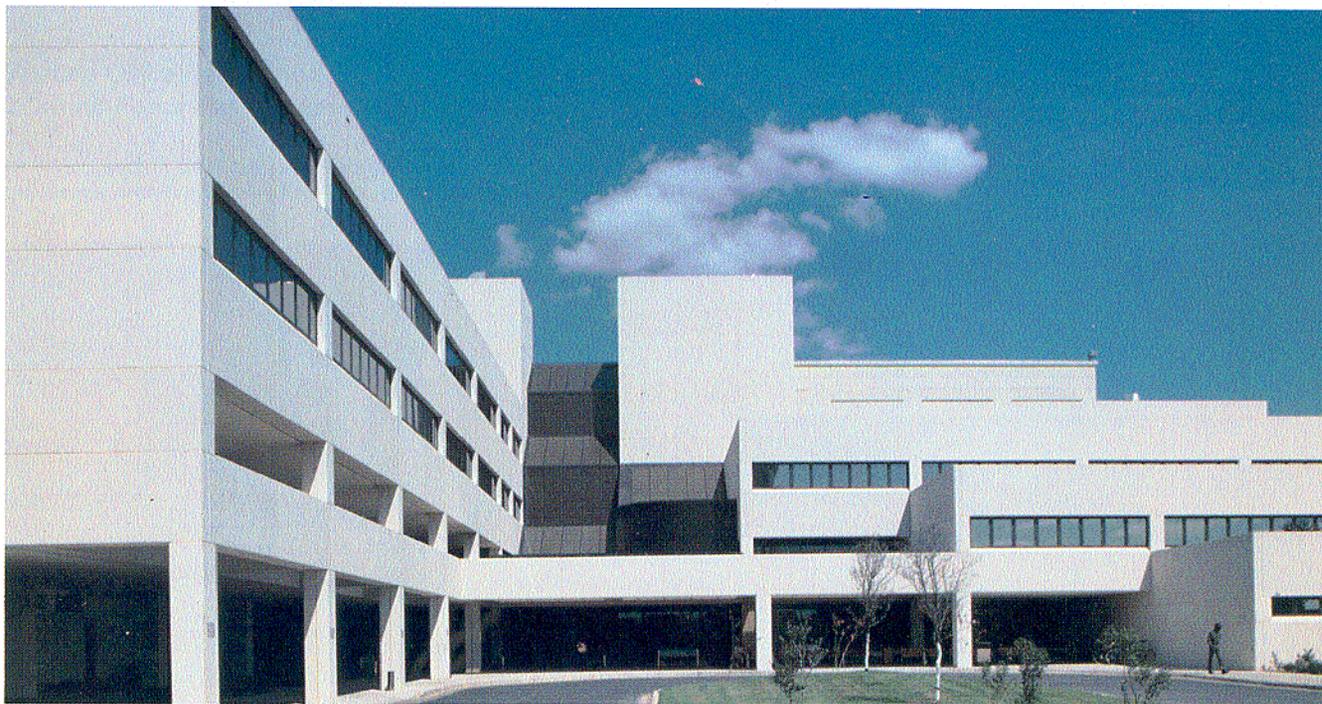
Command: Strategic Air Command

Base Engineering: 7th Civil Engineering Squadron

Design Agent: Corps of Engineers/Fort Worth District

Merit Award

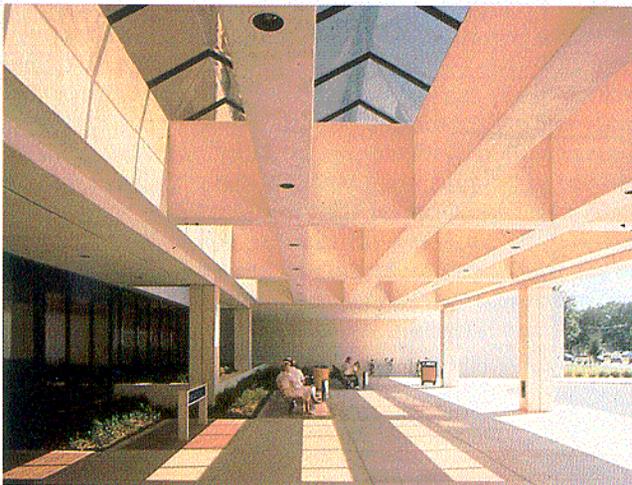
AWARD



MAIN ENTRANCE



INPATIENT RECEPTION



MAIN ENTRANCE CANOPY



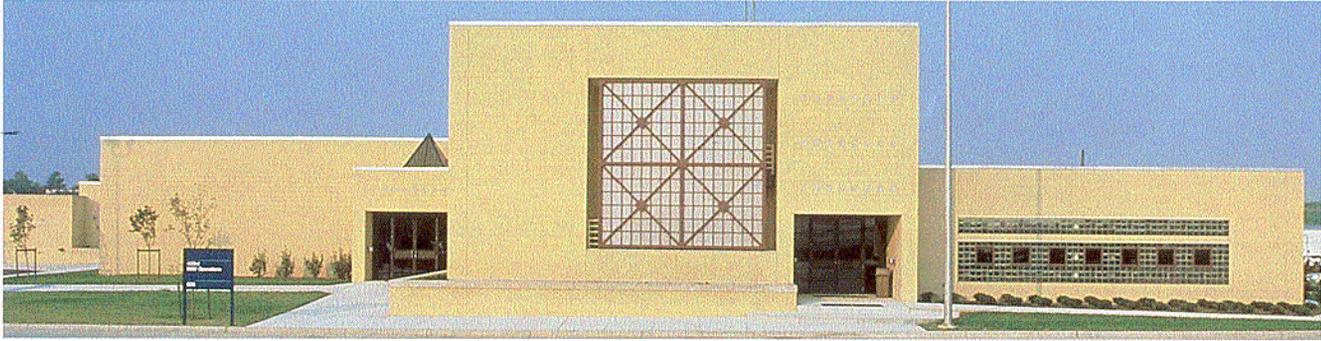
LOBBY ATRIUM

James Wilson

Merit Award

**C5-A Squadron Operations Facility
Kelly Air Force Base, Texas**

Architect: Marmon Barclay Souter Foster Hays



EXTERIOR AT ENTRANCE



OFFICE INTERIOR

This project provides offices, locker facilities, a secure conference room/command post and a 250-seat briefing room to support two Air Force Reserve squadrons. The building is organized around a landscaped, central courtyard which introduces natural light into all areas.

Exterior walls are constructed of buff-colored face brick with horizontal banding which is typical for adjacent buildings, and the square window screen wall with the diagonal pattern reflects the design of the large sliding doors of a nearby 1940's hangar. Glass block walls are used for noise control on walls facing the apron and runways.

AFRCE: Central Region

Host Command: Air Force Logistics Command

Using Command: Air Force Reserves

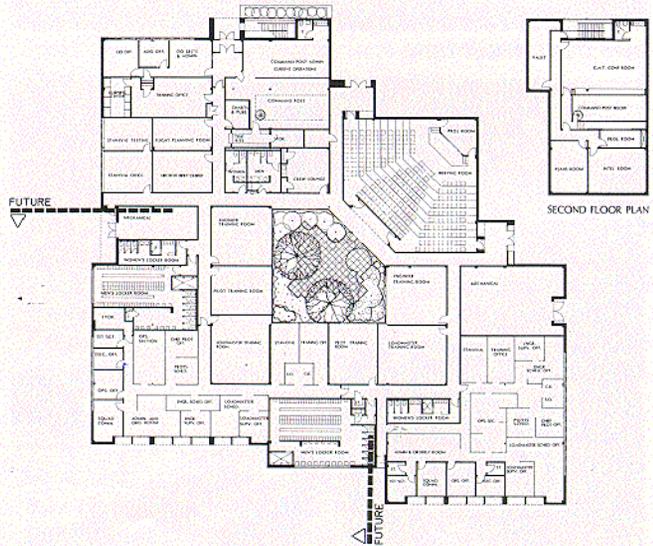
Base Engineering: 2851st Civil Engineering Squadron

Design Agent: Corps of Engineers/Fort Worth District



AUDITORIUM

John Dyer

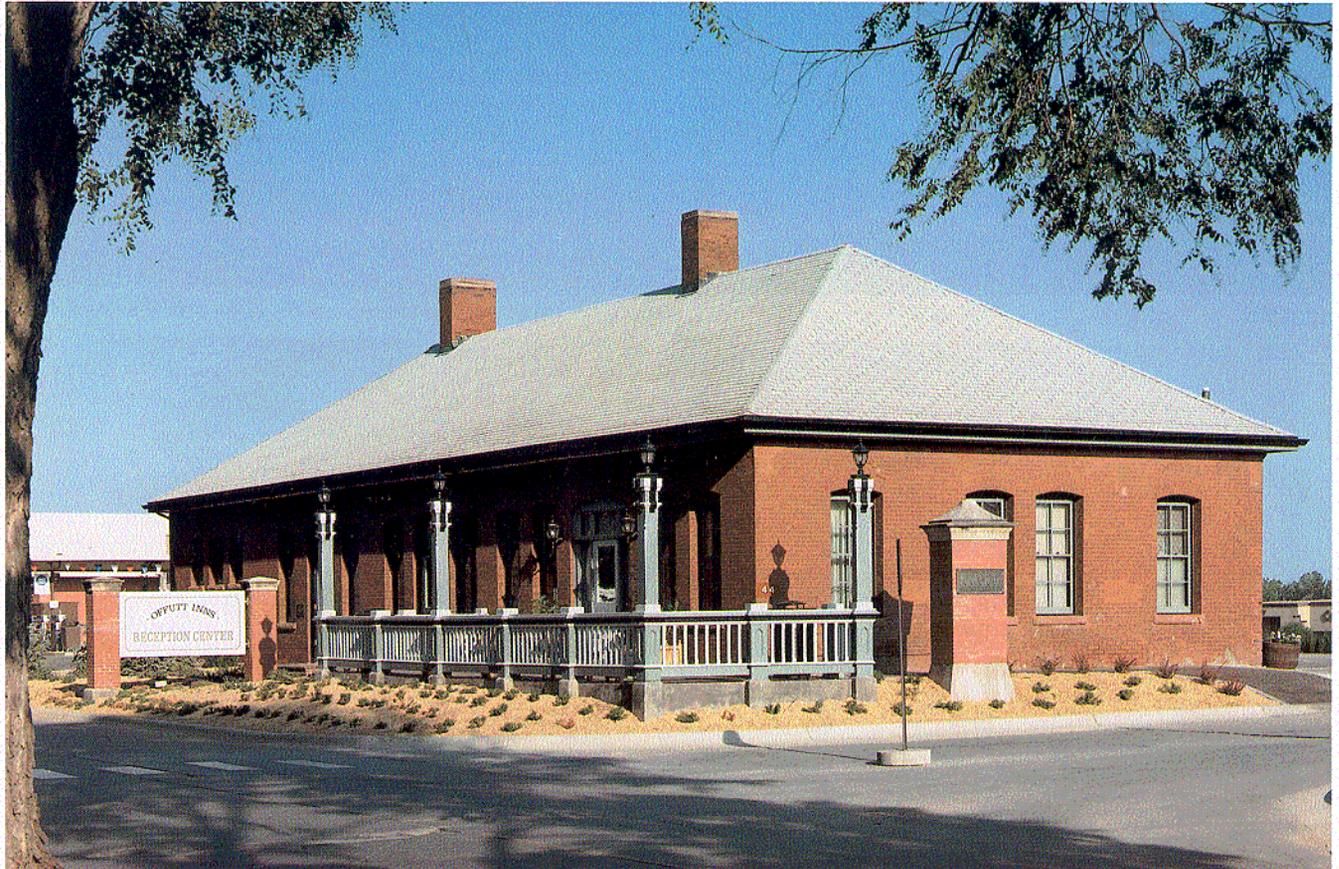


FLOOR PLAN

Merit Award

Billeting Office Renovation Offutt Air Force Base, Nebraska

Architect: Gary L. Gebhard, SAC Design Center
Landscape Architect: Theodore T. Shierk, SAC Design Center

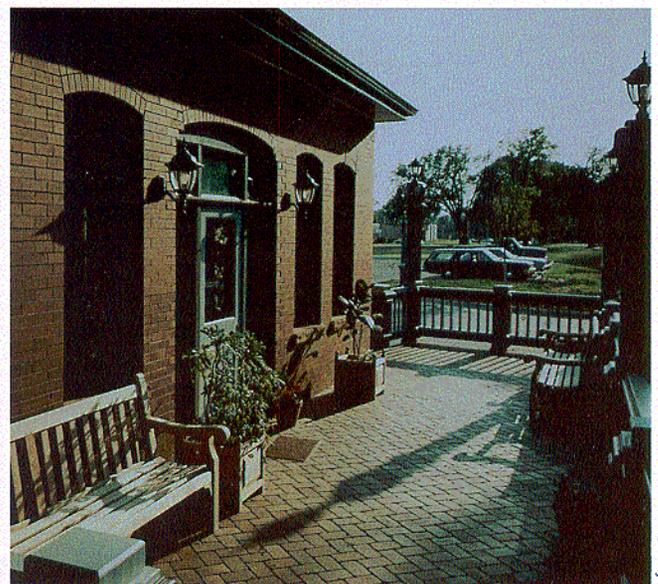


EXTERIOR LOOKING SOUTHEAST

The staff of the Strategic Air Command Design Center have deftly demonstrated that base-level design professionals can get the job done with style. The project involved the renovation of the base billeting office which is housed in an historic building that served as an army signal post blacksmith shop before the turn of the century.

The renovation improves the appearance of one of the first buildings to serve visitors, retains the historic character of the building and provides better access for the handicapped. Asphalt paving was removed from three sides of the building and replaced with earth berms and landscaping. A new porch improves handicapped accessibility. The porch railings and lamp posts were patterned after other historic buildings and all trim was painted in a historically-based, monochromatic gray and black color scheme. Brick pavers in a basket weave pattern and period porch furniture and planters complete the historic motif.

Command: Strategic Air Command
Base Engineering: 55th Civil Engineering Squadron

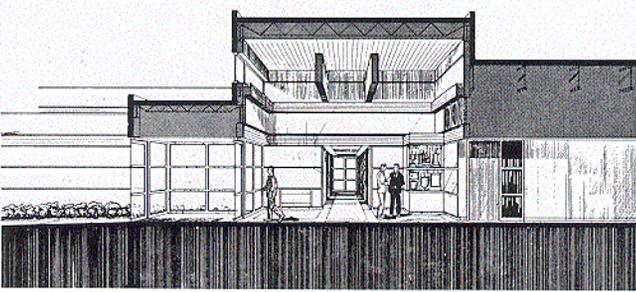


ENTRANCE PORCH

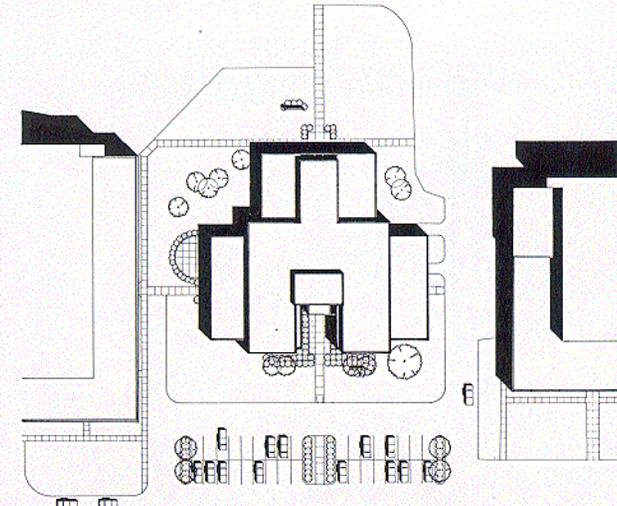
Merit Award

Composite Squadron Operations Facility Truax Field, Wisconsin

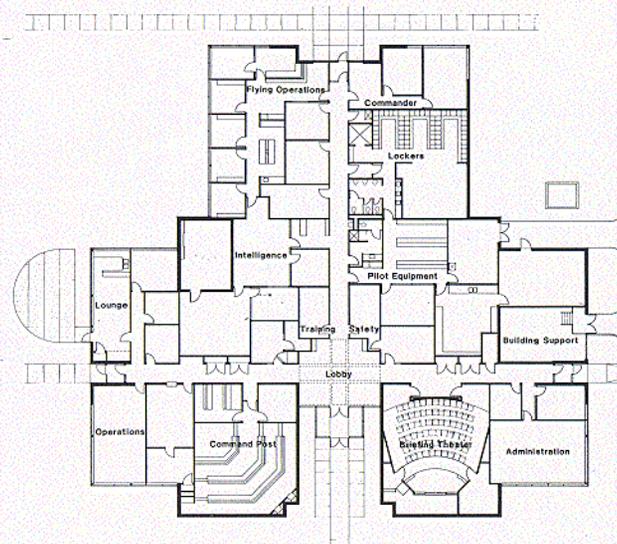
Architect: Flad & Associates



SECTION



SITE PLAN



FLOOR PLAN

The Composite Squadron Operations Building serves as the center for squadron operations on the base and incorporates flying operations, intelligence area, command post, briefing theater, administrative areas, and the pilots' locker and equipment rooms. The facility normally houses 27 personnel during regular duty hours, but must accommodate an additional 28 people plus 45 pilots on drill weekends.

The building is sited between two hangars and bordered on the north by the airfield. The design of this single-story, symmetrical building and its cross-shaped circulation plan is responsive to program requirements and to the site conditions. The central corridor links the building to the airfield, while the cross corridor responds to the circulation with the hangars on either side. The symmetry responds to the containment by the hangars and seeks to impart a more formal approach to the airfield from the base entry.

The arrangement of the functional areas reinforce the cruciform plan. The pilot related areas are located along the main corridor in a sequence based on a pilot preparing for a mission: from the base entry to the equipment room, intelligence and briefing, flying operations and finally the exit to the flight line. Administration and support spaces are located along the cross corridor. The lobby with its ample natural lighting welcomes visitors at the intersection of the two corridors and serves as a staging area for the adjacent briefing theater.

The exterior massing of the building responds to the stepped massing of the two hangars and to the program requirements of spaces with varying ceiling heights. The briefing theater and the command post require high ceilings and are located on either side of the glassed main entrance. The lower wings houses offices and other support activities.

The exterior walls are precast concrete panels which suggest an image of permanence appropriate for the facility and are compatible with the acrylic stucco walls of the hangars and other base facilities. Doors and windows have dark bronze anodized aluminum frames and bronze tinted glass to maintain continuity with recent base construction.

Energy conservation features are incorporated throughout the building. Window areas are minimized and have tinted insulating glass and thermally broken frames. All personnel entrances have vestibules. The hot water for the hot water heating system is supplied by a central heating plant.

The energy conservation features of the ventilation system include night set down, temperature setback, morning warm-up, economizer cycles using outside air for cooling and high efficiency fan motors.

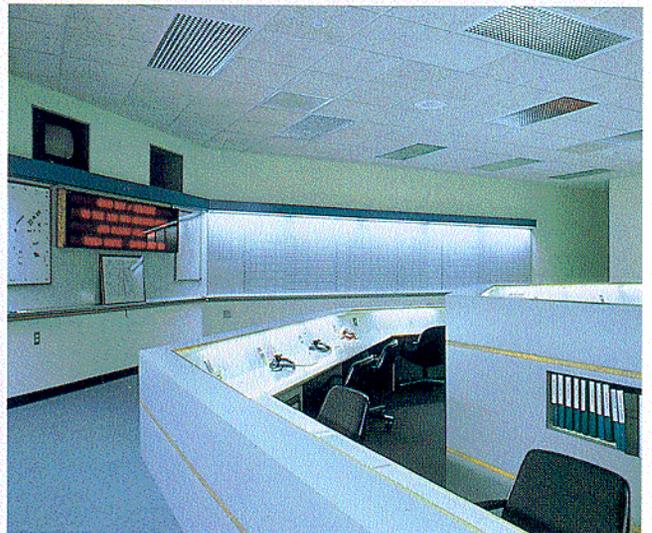
AFRCE/Design Agent: Air National Guard Support Center
Command: National Guard Bureau
Base Engineering: 115th Civil Engineering Squadron



EXTERIOR LOOKING SOUTH



LOBBY



COMMAND POST



AUDITORIUM



ENTRANCE

Honor Award

**Logistical Systems Operations Center
Wright-Patterson Air Force Base, Ohio**

Architect: KZF Incorporated



This design concept admirably responds to the problems associated with a constrained site and a number of demanding program requirements. The solution includes four basic elements: 1) most of the floor area is single-story in accordance with program requirements; 2) the administration section is a two-story element due to the site constraints and functional requirements; 3) an existing utility building and its services are retained and included within the envelope of the project; and 4) a "garden wall" concept addresses concerns for physical security.

The two-story front facade of the building housing the administration areas is similar in scale and style to two adjacent buildings. These buildings are a 1960's building constructed of heavily textured, precast concrete panels on a six-foot grid and a 1940's building of precast concrete rendered in a simplified art deco style. The new facade is constructed of textured, architectural precast concrete panels with a design that is a direct synthesis of the architecture of the adjacent buildings.

The deep relief of the precast concrete window elements and stair towers creates architectural rhythms which are continued along the windowless, single-story data processing area. Precast

concrete planters with low ground cover serve as crash-resistant vehicle barriers. These planters also lend proportion and create a "garden wall" effect to what otherwise would be a monotonous, windowless facade.

The floor plan reflects the functional and security requirements of the user. There is a single point of entry, and the building is subdivided into levels of security and subzones of permitted access. Public functions are located on the perimeter and near the entrance. The controlled areas are in the center and to the rear of the building.

A pedestrian bridge connects the second floor of the administration section to the adjacent art-deco style building. The facade of the bridge continues the architectural rhythms and style of the second floor facade.

AFRCE: Eastern Region

Command: Air Force Logistics Command

Base Engineering: 2750th Civil Engineering Squadron

Design Agent: Corps of Engineers/Louisville District

Merit Award

**Consolidated Academic Complex
Brooks Air Force Base, Texas**

Architect: Bernard Johnson Incorporated



This complex will provide a consolidated facility for the USAF School of Aerospace Medicine, USAF Systems Acquisition School and other professional education programs. The project includes classrooms, laboratories, offices, a 200-seat lecture hall, student learning center, break rooms and rest rooms.

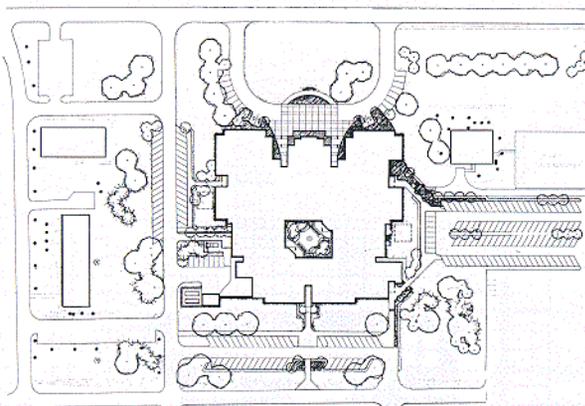
The design effectively addresses the diverse facility requirements in a logical and functional manner and retains a degree of individuality for each department. The size of the complex is minimized by sharing support facilities, by extensive use of open offices and by the development of a flexible classroom "module" with folding acoustical partitions to provide varying classroom sizes.

The compact floor plan minimizes travel distances between functions, and the arrangement of main and cross corridors

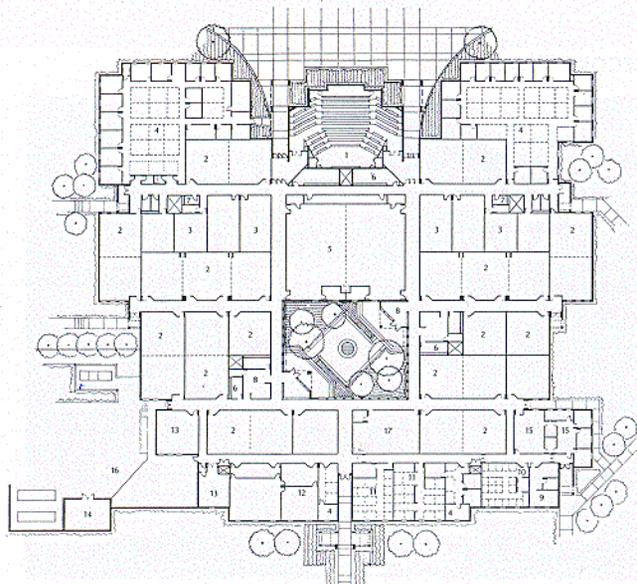
permits large numbers of students to move quickly and efficiently throughout the building. The lecture hall is located on the perimeter with direct exterior access to minimize the number of people entering the building. A central courtyard provides internal circulation and a pleasant outdoor extension of the break areas which can be used most of the year.

The new building is architecturally compatible with base buildings and will strengthen the regional architectural theme with a mission tile roof and indigenous brick colors.

*AFRCE: Central Region
Command: Air Force Systems Command
Base Engineering: 6570th Civil Engineering Squadron
Design Agent: Corps of Engineers/Fort Worth District*



SITE PLAN

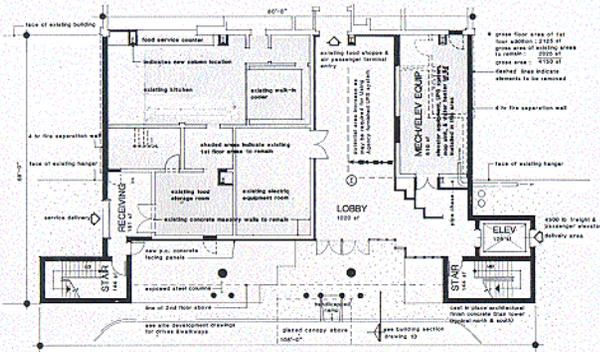


FLOOR PLAN

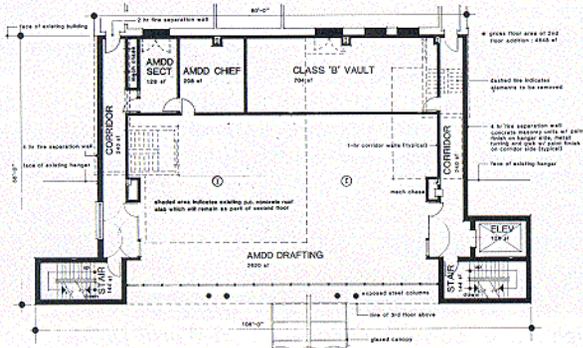
Merit Award

Aircraft Modification Facility Addition Wright-Patterson Air Force Base, Ohio

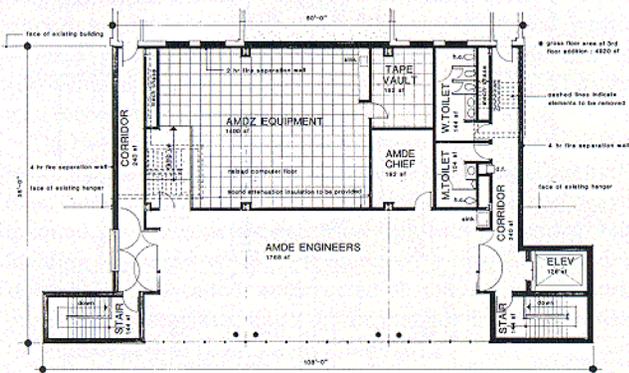
Architect: Belcan Corporation



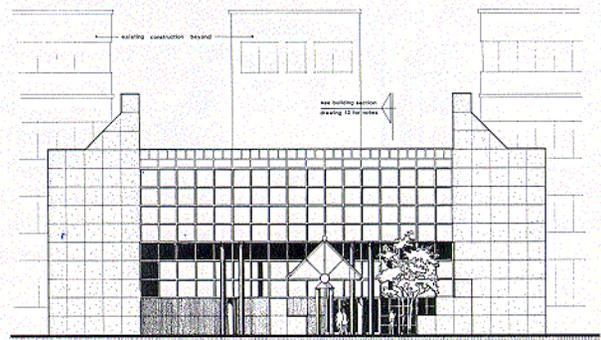
FIRST FLOOR PLAN



SECOND FLOOR PLAN



THIRD FLOOR PLAN



ELEVATION

The existing historically significant facility is one of the more prominent buildings on the flight line and serves as the air gateway to the base. Constructed in 1941 and the hub of World War II air traffic, the facility is over 700 feet long and composed of three distinctive parts - the north and south hangars and an 80-foot wide central office core. The proposed addition will provide additional office space, rest rooms, an elevator and access for the handicapped. The addition also will consolidate mechanical and electrical requirements, eliminate the clutter of previous additions and provide a distinctive entrance to the complex.

The addition and the interior renovations will preserve and enhance the heritage, make a strong, simple statement which reinforces the architectural character of the original buildings and create functional order with visual interest. The design cues for the addition are the adjacent hangars with their huge hangar doors, strong horizontal strips of windows and corrugated aluminum siding. The solid concrete masses of the new stairwells echo the hangar doors. The glass facade between the stairwells reinforce the visual cues of the horizontal fenestration and the reflective siding.

The addition also will improve pedestrian access and service delivery to the facility. An access driveway protected by a glass canopy will serve both automobile and bus traffic. Service deliveries will be accommodated with access drives on both sides of the addition.

AFRCE: Eastern Region

Host Command: Air Force Logistics Command

Using Command: Air Force Systems Command

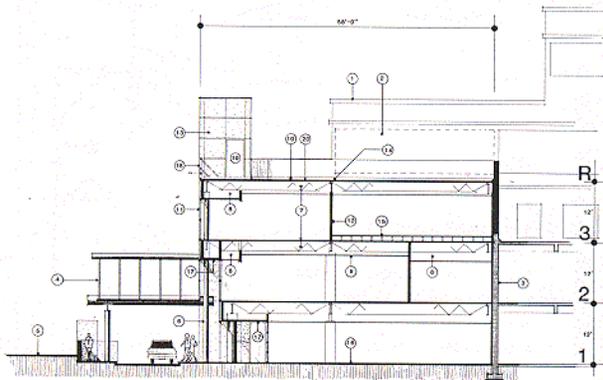
Base Engineering: 2750th Civil Engineering Squadron

and Aeronautical Systems Division/DE

Design Agent: Corps of Engineers/Loisville District



RENDERING



SECTION



EXISTING BUILDINGS

Merit Award

Defense Language Institute Master Plan Lackland Air Force Base, Texas

Architect/Planner: HMBH Architects

This study was generated to encourage the orderly development of the new Defense Language Institute, provide flexibility for future expansion and establish architectural design guidelines for Institute buildings. Three major objectives of the study were the optimal and cost-effective use of the site, the promotion of the training mission in a quality environment and the construction of well-designed, cost effective and compatible facilities.

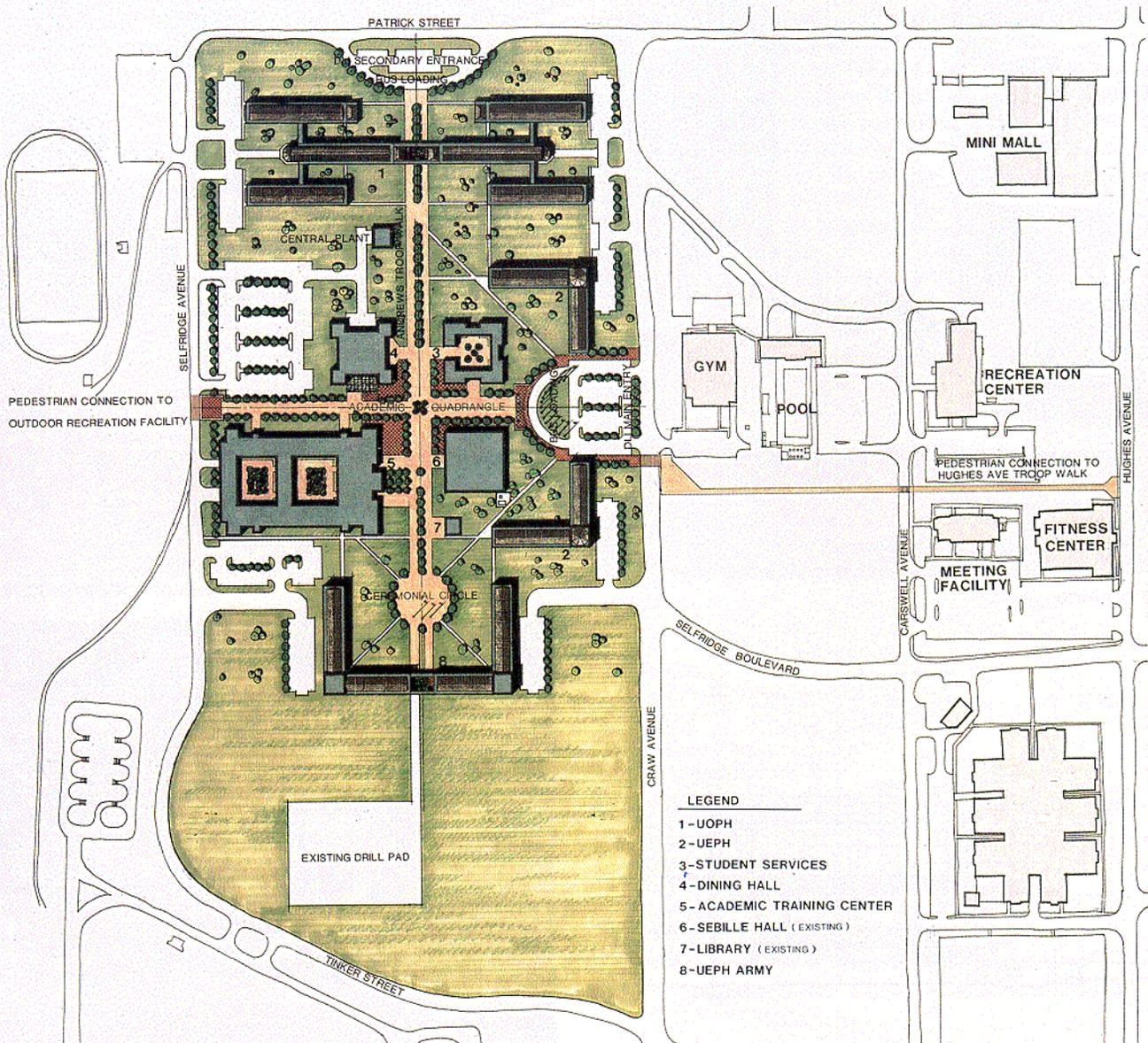
The master plan clearly defines the planning parameters, including land use and facility requirements, retention of exten-

sive open spaces, and pedestrian and vehicular traffic patterns. The study is outstanding in establishing architectural design guidelines. These guidelines cover the broader concepts of spatial sequencing, building massing, entrances and landscaping in addition to the specific design guidance on facades, fenestration, materials, colors and details.

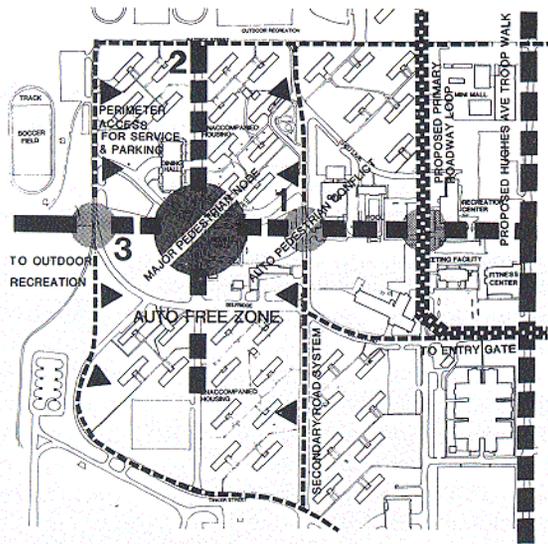
AFRCE/ Design Agent: Central Region

Command: Air Training Command

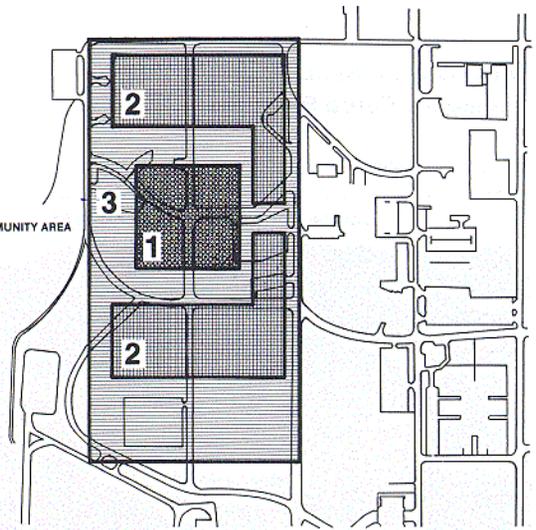
Base Engineering: 3700th Civil Engineering Squadron



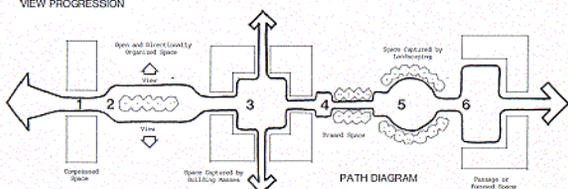
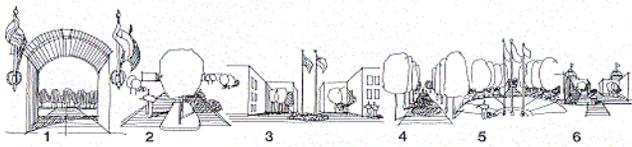
COMPREHENSIVE SITE PLAN



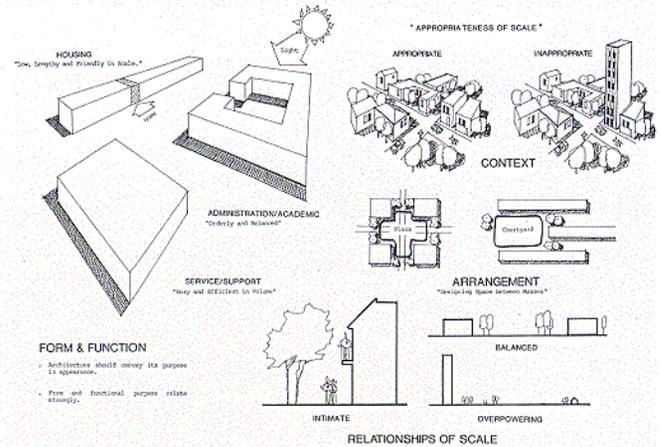
PROPOSED CIRCULATION PLAN



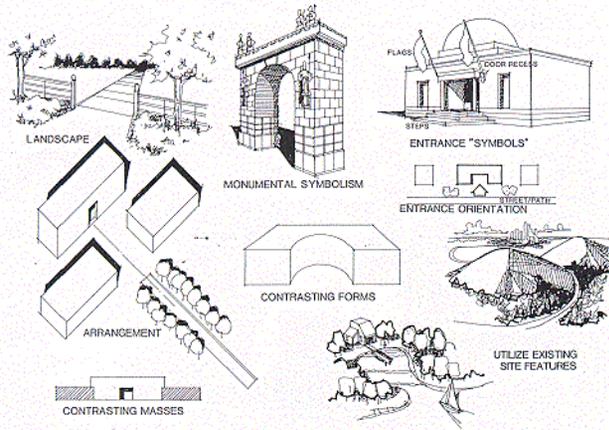
PROPOSED LAND USE PLAN



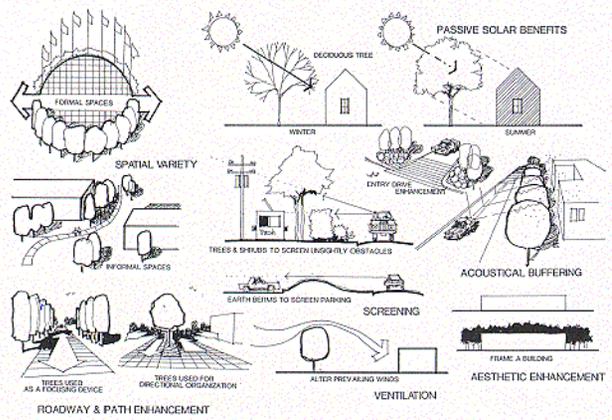
SPATIAL SEQUENCING



MASSING CONCEPTS



ENTRY CONCEPTS



LANDSCAPE RECOMMENDATIONS

Honor Award

Officers Club Renovation Bolling Air Force Base, D.C.

Architect: Lester B. Knight & Associates, Inc.
Interior Design: Lester B. Knight & Associates, Inc.
Janice Nielsen, HQ USAF/LEEES



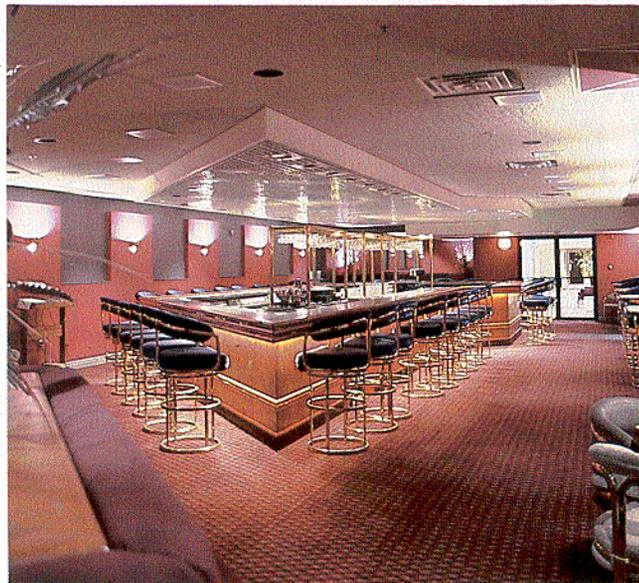
Mengoff Photography

MITCHELL ROOM



SSgt Brigitte C. Wright

VICTORY LOUNGE



SSgt Brigitte C. Wright

BRASSWORKS LOUNGE/DISCO BAR

A major fire essentially destroyed the interior of this historic building in 1985. Dedicated design and renovation efforts have successfully restored the Officers Club to its original design theme.

A comprehensive interior design program was developed to retain the original character and furnishings of all rooms, but using contemporary finish materials. Much of the existing artwork and furniture was salvaged and refinished. New pieces were purchased to match or complement existing furnishings where existing items could not be saved.

The Brassworks was redesigned as a lounge/disco bar with custom booths and a wood parquet dance floor. Brass was used throughout on wall sconces, chairs and railings. The gleaming brass accents the richly grained wood bar.

The Victory Lounge was completely redesigned as an early 1900's pub. Original handmade flags given by French women to American liberators at the end of World War I and an old wooden airplane propeller of similar vintage decorate the walls. The Washington Room, the main dining room, was restored to its historic colonial architecture.

The extensive devastation from the fire provided an opportunity to redesign the kitchens and install new equipment, to provide complete handicapped access and to correct a number of functional, structural, electrical and mechanical deficiencies.

*AFRCE: Eastern Region
Command: Air Force District of Washington
Base Engineering: 1100th Civil Engineering Squadron
Design Agent: Corps of Engineers/Norfolk District*



SSgt Brigitte C. Wright

WASHINGTON ROOM

Honor Award

Billeting Office Renovation Offutt Air Force Base, Nebraska

Architect: Gary L. Gebhard, SAC Design Center
Interior Design: Kay L. Brown, SAC Design Center



RECEPTION LOUNGE

The staff of the Strategic Air Command Design Center was responsible for the award-winning renovations of both the interior and exterior of this historic building that once served as an army signal corps blacksmith shop.

The purpose of the interior renovation was to improve functionality of the base billeting office and to create an attractive interior design that would reflect the historic character of this turn-of-the-century building. The check-in and reservation counters were redesigned to accommodate new computer and communications equipment and to provide better service.

The historic character of the interior was completed with installation of Victorian patterned fabrics, balloon valance drapes with sheers, and furniture, wall coverings and lighting fixtures which are historic reproductions. These efforts have created an attractive environment which is sympathetic to the period and inviting to the visitor.

Command: Strategic Air Command
Base Engineering: 55th Civil Engineering Squadron



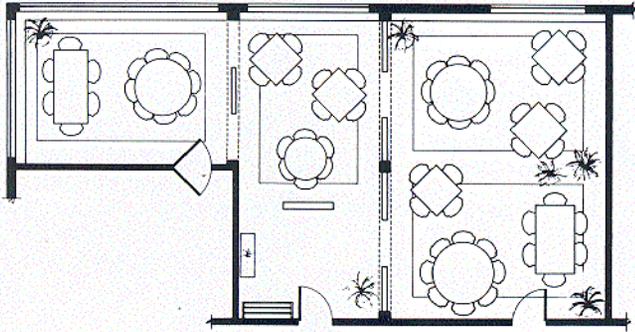
RECEPTION DESK

Mike Whyte

Merit Award

Executive Dining Room Renovation Wright-Patterson Air Force Base, Ohio

Architectural Design: Capt. Dale L. Wood, ASD/DED
Interior Design: Jan Strunk, HQ AFSC/DEEE



FLOOR PLAN

The renovation of this dining room provides a relaxing and attractive dining environment for daily use by senior officers and civilians of the Aeronautical Systems Division and for entertaining and conducting business with visiting dignitaries. The renovation includes better utilization of existing space and the replacement of all finishes and furnishings. The atmosphere of the renovated dining room is enhanced by the new brass and etched glass partitions which break up the space and by the selection of lighting fixtures which create visual accents and lighting flexibility.

*Host Command: Air Force Logistical Command
Using Command: Air Force Systems Command
Base Engineering: 2750th Civil Engineering Squadron
and Aeronautical Systems Division/DED
Design Agent: Aeronautical Systems Division/DED*

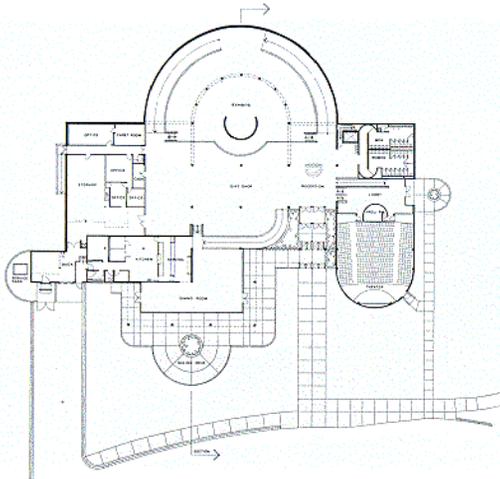


Captain Dale L. Wood

1988 Department of Defense Design Award

Visitor Center United States Air Force Academy, Colorado

Architect: John James Wallace + Associates



FLOOR PLAN

The United States Air Force Academy Visitor Center provides support for the large number of visitors attracted to the Air Force Academy each year, introduces them to the mission of the Academy and seeks to make their visit a pleasant experience.

Easy access to the Visitor Center and the new 300-car parking lot encourages Chapel visitors to park there, which relieves traffic congestion in the Cadet Area and dramatically increases use of the Visitor Center. The new building is nestled into a wooded hillside adjacent to the Academy Chapel and the Cadet Area. The site provides convenient access to the Chapel along a short pedestrian trail through the woods. The steep terrain visually separates the Visitor Center and its less formal style of architecture from the formal site plan and architecture of the Cadet Area.

The materials, shapes and colors selected for the building are generally compatible with the architecture of the Cadet Area. The building has a strong, horizontal appearance created by the low concrete retaining wall which encloses the dining patio, provides a base for the theater and presents a podium from which springs sleek high-tech pavilions. Sweeping curved walls reflect the strong contours of the site and the circulation patterns. The precisely detailed aluminum and glass skin, the earth tone concrete and the integrated landscaping combine to present an image which is unmistakably "Air Force Academy", but which also welcomes the visitor.

The building contains four main functions - exhibits, gift shop, theater and dining. The exhibit areas present the history of the Air Force and of the Academy and offer glimpses of cadet life. The sloping site was used to advantage by locating these functions on different levels which are linked by ramps for handicapped access and for ease of travel.

Command/ Design Agent: United States Air Force Academy
Base Engineering: 7625th Civil Engineering Squadron



INTERIOR



ENTRANCE



EXTERIOR LOOKING NORTH

Tim Hurley

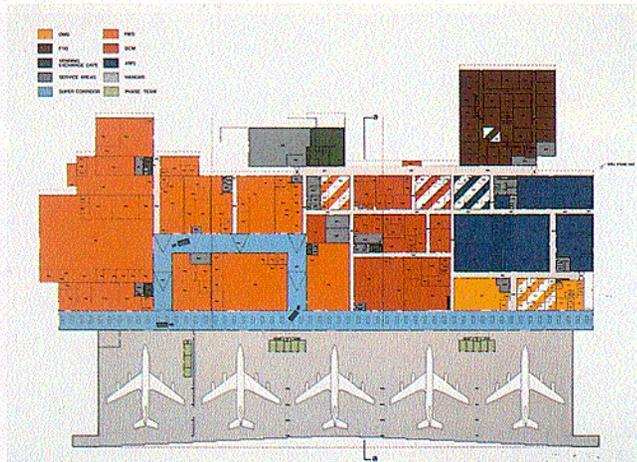
1988 Department of Defense Design Award

Aircraft Maintenance Facility
Offutt Air Force Base, Nebraska

Architect: Dana Larson Roubal and Associates



EXTERIOR LOOKING EAST



FLOOR PLAN



EXTERIOR DETAIL

Dana Larson Roubal and Associates

This facility consolidates under one roof all functions related to RC-135 aircraft maintenance. The project was constructed in two phases. The first phase included 286,000 square feet of shops, administrative space and classrooms. The second phase included 160,000 square feet of hangar space which was sized to completely enclose five RC-135 aircraft.

The maintenance facility is sited between an 800-vehicle parking area which provides adequate parking for facility personnel and aircraft taxiways which permit direct access to the hangar bays. An access drive on three sides of the building allows direct truck access to the shop areas.

A 29-foot wide "super corridor" provides access to the shops from each hangar bay, allows truck and trailer access and permits the transfer of large airplane parts to and between the shops. This corridor also provides vehicle access from two sides of each of the bays, thereby reducing the size of the hangar bays. Skylights and clerestory windows introduce natural light into the corridor.

Materials were chosen for durability, ease of maintenance and attractive appearance. A band of masonry along the lower portion of the walls adds color and texture to the facades and provides the durability required at locations where finishes are most vulnerable to damage and wear.

The facility has a zoned fire detection and protection system. The "super corridor" has a dry pipe sprinkler system, and the hangars have AFFF oscillating monitor nozzles for under wing protection in concert with a ten-zone overhead AFFF sprinkler system. The HVAC systems are interlocked with the fire detection system and shut down with a fire alarm.

AFRCE/Command: Strategic Air Command
Base Engineering: 55th Civil Engineering Squadron
Design Agent: Corps of Engineers/Omaha District

1988 Department of Defense Design Award

Unaccompanied Enlisted Personnel Housing Fairchild Air Force Base, Washington

Architect: Environmental Concern, Inc.



CENTRAL OPEN SPACE

The design goals were to create a residential living environment for unaccompanied enlisted personnel, to provide parking close to the housing units, to create usable open space and to minimize the impact of an adjacent coal storage yard. This project successfully achieves these goals and creates an excellent living environment. Buildings are carefully sited to create an attractive, pedestrian-oriented open space with parking on the periphery of the site. Earth berms and well-chosen landscape materials screen adjacent roads and the coal storage yard. The buildings are well-designed and functional with sloping roofs and warm masonry exterior walls.

AFRCE: Western Region

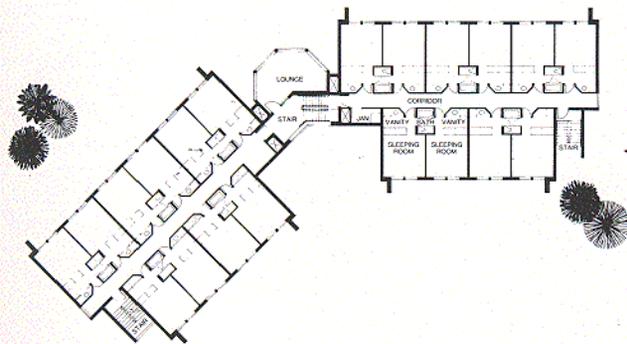
Command: Strategic Air Command

Base Engineering: 92nd Civil Engineering Squadron

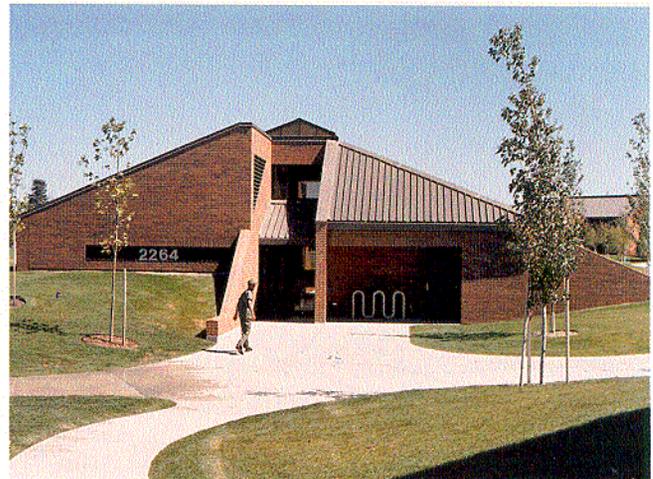
Design Agent: Corps of Engineers/Seattle District



INTERIOR OF LOUNGE



FLOOR PLAN OF HOUSING UNIT



SERVICE BUILDING



Director of Engineering and Services: Major General Joseph A. Ahearn, P.E.
Deputy Director: Brigadier General James E. McCarthy, P.E.
Chief, Installation Development Division: Colonel Dabney S. Craddock III, P.E.
Chief, Facilities Branch: Mr. William A. Brown, Sr., P.E., Hon. AIA
Editor: Mr. James Philip Enloe, R.A.