

UNITED STATES AIR FORCE



DESIGN AWARDS PROGRAM

1995





Congratulations to the award winners! Air Force engineers and architects do an outstanding job providing quality projects for Air Force people. We do it all over the nation and in many countries of the world. You, your team mates and all the other teams involved provide quality constructed, functional, attractive, and economical facilities that provide the foundation for Air Force readiness. It is done extremely well and you can be particularly proud for having been selected as a winner from this fine group of Air Force professionals.

What you do is vitally important. It is important to the Air Force and nation because through your efforts facilities are provided that our men and women enjoy working in and from. Our Air Force is the most advanced and capable air and space force in the world, and to maintain that critical edge we need great Air Force people.

Again, congratulations on your achievements and success — the entire Air Force wins as a result of your great work.

*Jim McCarthy*  
James E. McCarthy  
Major General, United States Air Force  
The Civil Engineer



This Annual Report marks the twentieth year of the United States Air Force Design Awards Program that was established in 1976 to recognize and promote design excellence. The Air Force sets no limits on the number or type of projects that can compete each year. There are seven project award categories. These include Planning and Urban Design, Housing Community Plans, Design Concepts, Interior Design, Landscape Design, Facility Design, and Completed Military Family Housing.

This year, the Planning and Urban Design and Housing Community Plan submittals were reviewed by a distinguished jury composed of two members of the American Society of Landscape Architects, and one representative from Headquarters Air Force. Interior Design submittals were reviewed by three members of the International Interior Design Association. All other categories were reviewed by the Architectural/Engineering Jury composed of five members of the American Institute of Architects, one member also representing the Society of American Military Engineers.

With the selection of this year's award winning projects, the Air Force has honored one hundred and nine completed projects, seventy-eight concept projects, twenty planning projects, and twenty-three interior design projects since the program began.

The United States Air Force Design Awards Program is a viable and important program that has become institutionalized within the Air Force. It is widely recognized throughout the federal government and is supported by the enthusiastic participation of notable professionals in the private sector.

honor award | planning & urban design

Commander's Facility Excellence and Facility Design Guides  
Air Mobility Command

honor awards | concept design

Noncommissioned Officers' Club  
Randolph Air Force Base, Texas  
Iditarod Dining Facility  
Elmendorf Air Force Base, Alaska

honor award | interior design

Air Force Senior Noncommissioned Officer Academy  
Gunter Annex, Maxwell Air Force Base, Alabama

honor awards | facility design

Microelectronics Laboratory  
Hanscom Air Force Base, Massachusetts  
Building 32 Rehabilitation  
Wright-Patterson Air Force Base, Ohio  
Air Force Senior Noncommissioned Officer Student Dormitory  
Gunter Annex, Maxwell Air Force Base, Alabama  
Area Dental Lab  
Peterson Air Force Base, Colorado

merit award | planning & urban design

Comprehensive Plan  
Gunter Annex, Maxwell Air Force Base, Alabama

merit awards | concept design

Child Development Center  
Aviano Air Base, Italy  
Replacement Military Family Housing - Phase I  
Vandenberg Air Force Base, California  
Composite Medical Facility  
Elmendorf Air Force Base, Alaska

merit award | interior design

Kenai Dining Facility  
Elmendorf Air Force Base, Alaska

merit awards | facility design

Aircraft Maintenance Hangar  
Wisconsin Air National Guard, Milwaukee, Wisconsin  
Family Visitation Facility  
Offutt Air Force Base, Nebraska  
Nellis Federal Hospital  
Nellis Air Force Base, Nevada  
Additions to the Senior Noncommissioned Officer Academy  
Gunter Annex, Maxwell Air Force Base, Alabama

citation award | planning & urban design

Military Family Housing Community Plan  
Nellis Air Force Base, Nevada

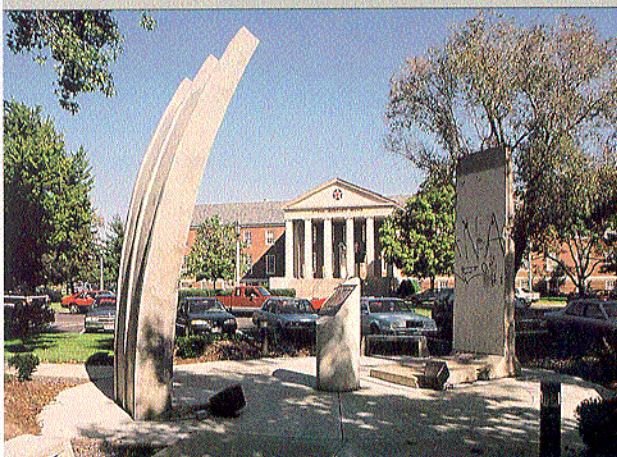
citation awards | interior design

Child Development Center  
Hanscom Air Force Base, Massachusetts  
Gossick Leadership Center Renovation  
Arnold Air Force Base, Tennessee  
Air Mobility Command Design Center  
Scott Air Force Base, Illinois

citation awards | facility design

Stewart Hall, Acquisition Management Complex - Phase I  
Wright-Patterson Air Force Base, Ohio  
Runway Restoration  
Ascension Island, South Atlantic  
Area Development Plan, Multi-purpose Administration Facility  
March Air Force Base, California  
Fuel Systems Maintenance Hangar  
Nebraska Air National Guard, Lincoln, Nebraska





AIR MOBILITY COMMAND

COMMANDER'S  
GUIDE TO  
FACILITY  
EXCELLENCE





Recognizing the importance of improving, communicating, and maintaining quality facility standards in a time of shrinking budgets, Air Mobility Command has developed this series of Commander's Facility Excellence and Facility Design Guides. These guides promote "understated facility excellence" throughout the command and establish standards for success in furnishing Air Mobility Command's personnel with quality facilities.

Keeping airlift and tanker crews in a high state of readiness is an essential component of the command's goal of "Responsive Global Reach for America...Every Day." The operability, condition, and appearance of each Air Mobility Command facility play vital roles in not only achieving mission objectives, but also providing efficient, pleasant environments that foster readiness for the Air Mobility Command team – the military and civilian professionals in the Air Force, Air National Guard and Air Force Reserve members, their families, and retirees. Creating this environment is the product of individual and collective efforts focused on effective management of facility resources, adherence to quality standards, and commitment to excellence.

These guides delineate the standards for planning, programming, designing, and constructing new facilities and for upgrading existing facilities within the command. They also address interior and landscape design, as well as infrastructure issues. The criteria play an important role in evaluating existing facilities and developing plans and programs needed to upgrade facilities and installations. These design standards equip the commanders, civil engineers, and designers to effectively participate in the project development process. These documents are helping the command to achieve dramatic improvements to their facilities and installations.

## COMMANDER'S FACILITY EXCELLENCE AND FACILITY DESIGN GUIDES

### DESIGN:

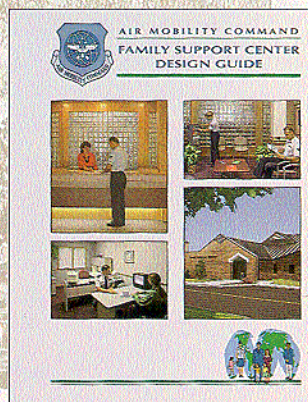
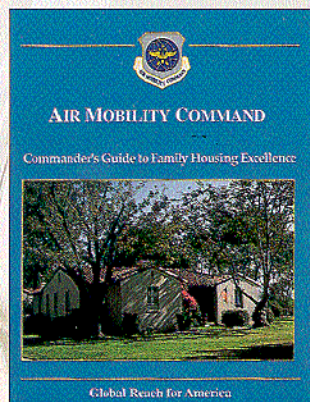
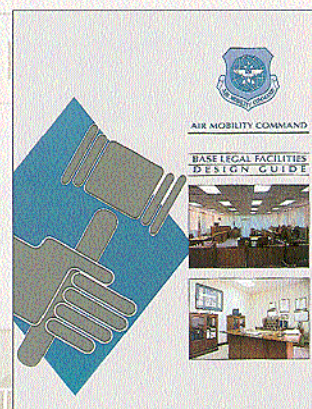
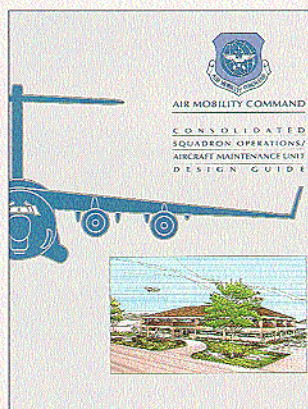
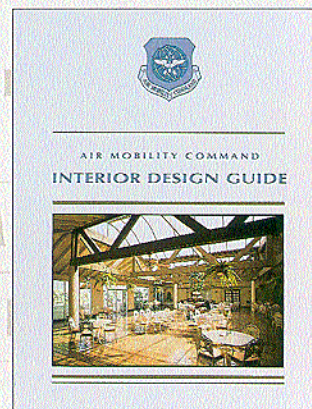
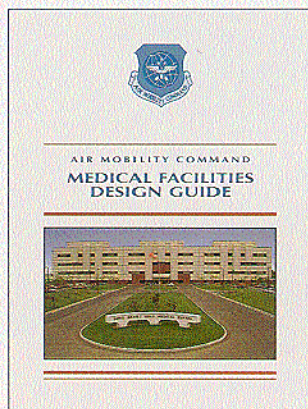
*Sverdrup Facilities, Inc./Delta Research Corp.*

### COMMAND:

*Air Mobility Command*

### CUSTOMERS:

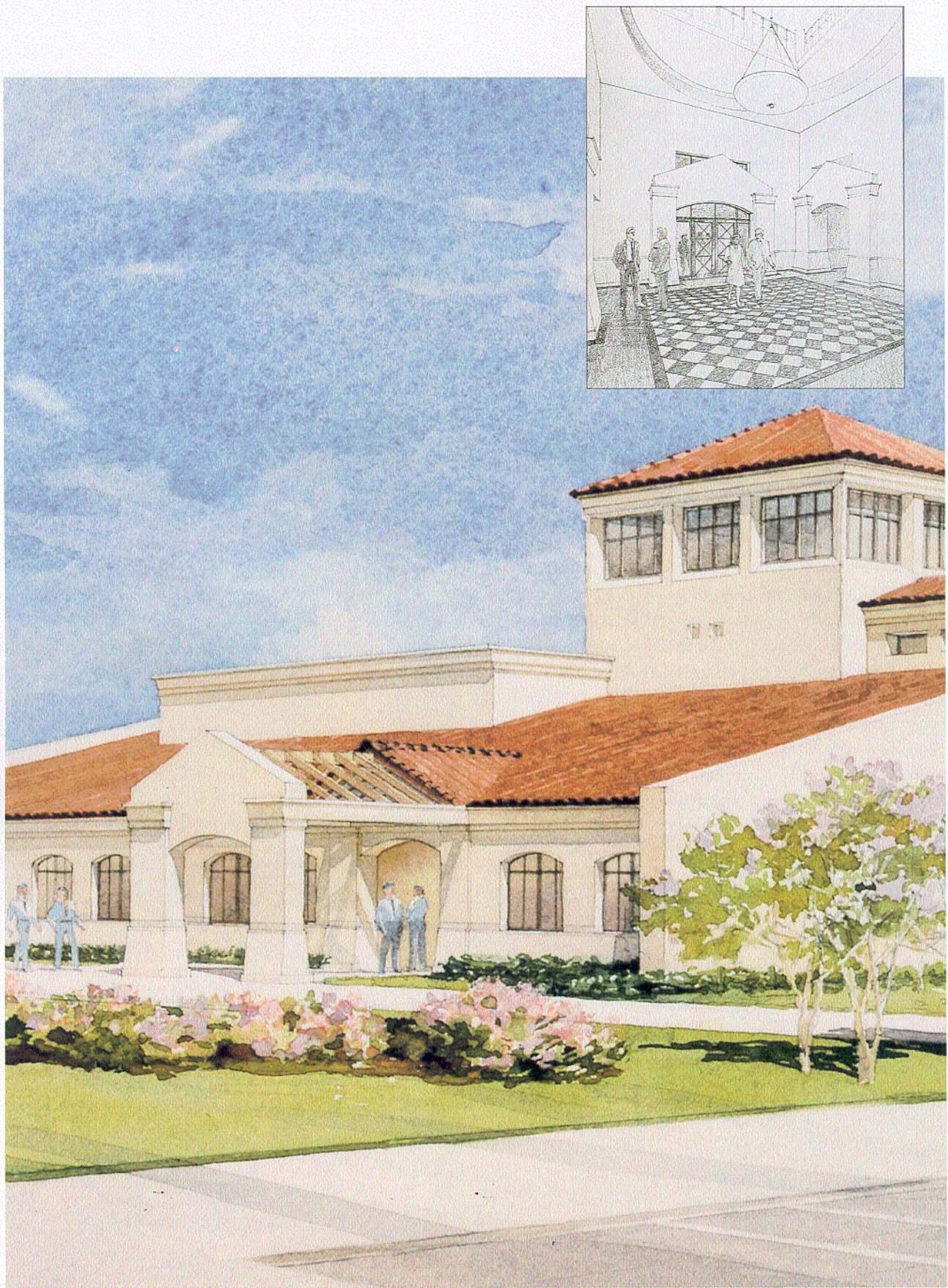
*AMC installations*



### Juror's Comments:

*"Comprehensive, professional, practical tools applicable to entire Air Force. Excellent primer in base and facility planning."*







This project successfully integrates multiple design goals in concert with existing architectural precedents at Randolph Air Force Base. The design achieves predetermined design objectives that include a link to the established architecture of the base, sensitive site treatment to address key sight line and orientation concerns, and allowing for maximum flexibility of the building's assembly spaces.

The design sets a new standard outside the base historical district, yet demonstrates a strong respect for Randolph's Spanish Revival style architecture. The exterior insulation finish system provides a low cost, energy-efficient stucco appearance complementary of the base's historic significance. The Mission clay tile roof, towers with clerestory windows, and the use of pilaster and pediment elements comply with architectural compatibility guidelines and serve to link the building with the existing historical references.

The prominence of the site increases public visibility, giving it enhanced emphasis within the community of significant facilities on Randolph Air Force Base. For this reason, the design concept focused on developing a strong visual character when viewed from a variety of angles. One way this was achieved was by orienting the night club to provide visibility from a variety of vantage points along the main vehicular approach to the site. Through selective site adaptation and landscape design applications, undesirable views are mitigated and service areas are screened from major thoroughfares.

The main tower element features clerestory windows giving emphasis to the building elevations and compatibly integrating the building into the Randolph style. It also serves as a source of natural light to the entry lobby space. Other clerestory spaces provide similar results at major circulation elements. The designers resolved the requirement for maximum flexibility for the assembly rooms by planning the ballroom, function rooms and dining rooms to function separately, or create a single grand ballroom. The lobby and pub spaces double as receiving areas for patrons during formal events.

## NONCOMMISSIONED OFFICERS' CLUB Randolph Air Force Base, Texas

### DESIGN:

*Air Force Center for Environmental Excellence  
Air Force Design Group*

### COMMAND:

*Air Education and Training Command*

### DESIGN/CONSTRUCTION AGENT:

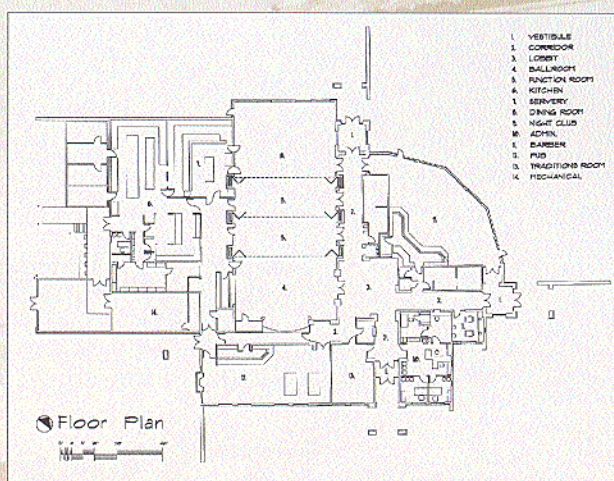
*12th Civil Engineer Squadron*

### UNIT:

*12th Civil Engineer Squadron*

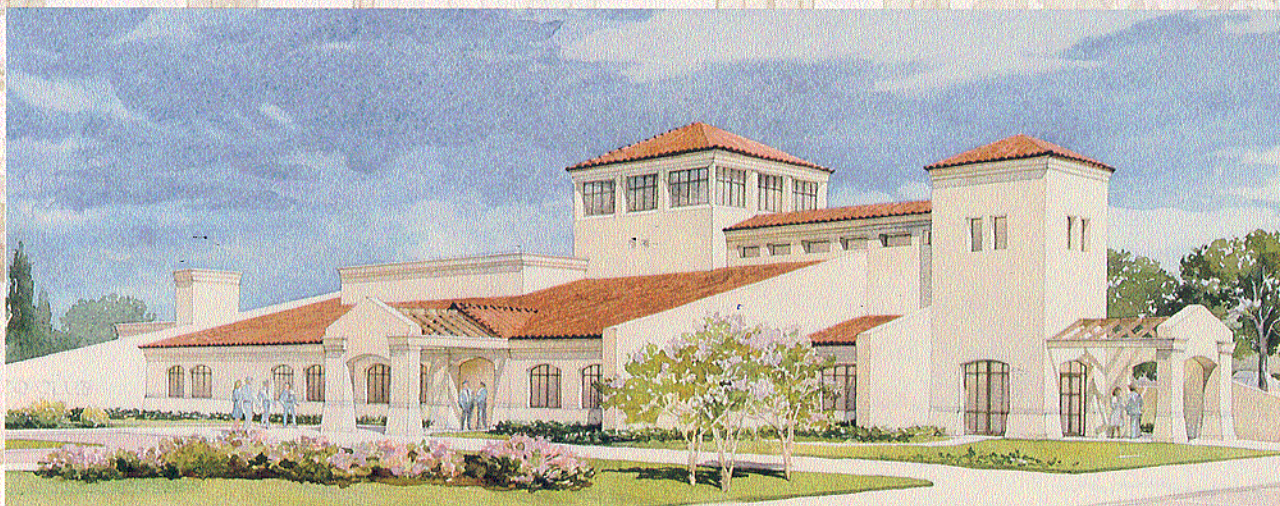
### CUSTOMERS:

*Air Force Services Agency/12th Services Squadron*

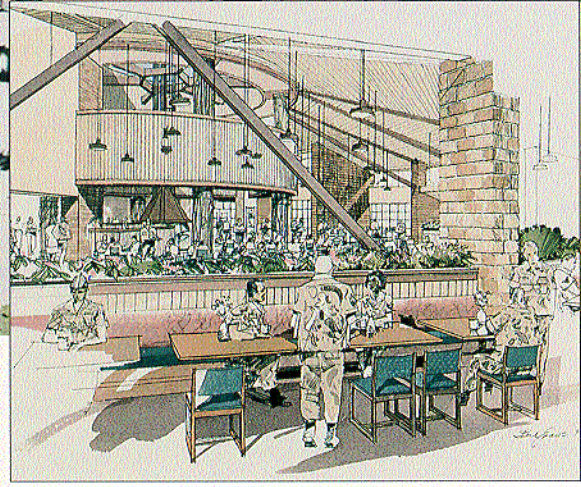


### Juror's Comments:

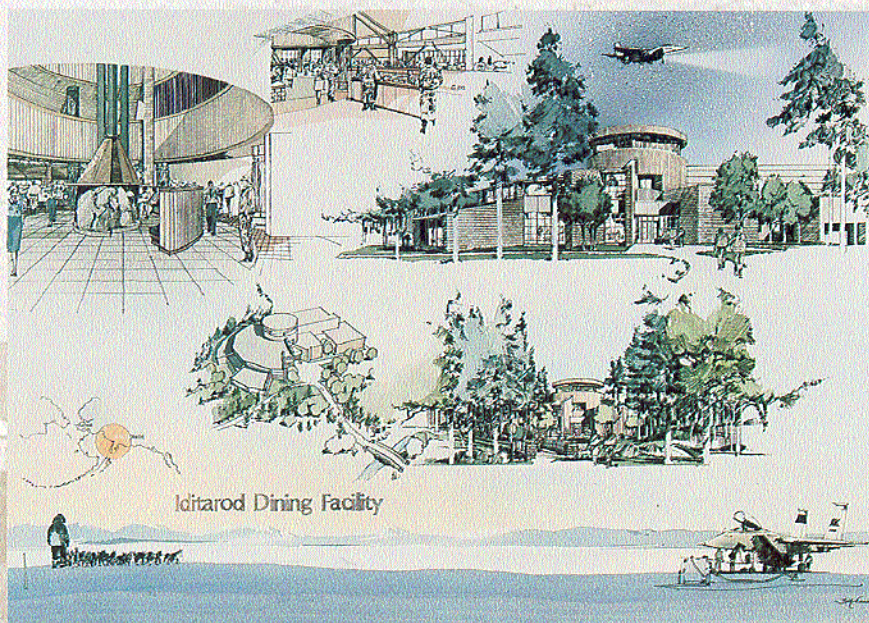
*"Exceptional example of good in-house design. Appropriate orientation on site, good spatial hierarchy."*











## **IDITAROD DINING FACILITY** *Elmendorf Air Force Base, Alaska*

**DESIGN:**  
*Cash Barner Usher, Architects*

**COMMAND:**  
*Pacific Air Forces*

**DESIGN/CONSTRUCTION AGENT:**  
*Alaska District US Army Corps of Engineers*

**UNIT:**  
*3rd Civil Engineer Squadron*

**CUSTOMER:**  
*3rd Services Squadron*

The goal of this design is to capture the rugged adventurous spirit of the world famous Iditarod dog sled race across the Alaskan wilderness. The design scheme incorporates a radial dining area floor plan, centrally organized by a rotunda that displays itself prominently from all public areas of the building and is visible above the tops of the trees for distant site identity. The segmented, radial dining element creates a variety of dining spaces on two levels, each with differing spatial and view qualities. Near the exterior are the more intimate areas, while larger lodge-type spaces occur near the rotunda.

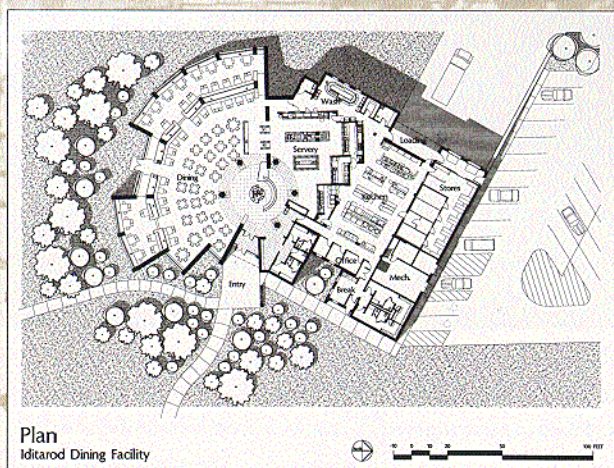
The structure was designed to preserve the unique wooded character of the site on what is otherwise a highly developed military installation. Services areas are virtually invisible through the native vegetation and new landscape materials. The solution is unique and creative, yet consistent with the Elmendorf Comprehensive Plan. An intentional rustic feeling is achieved through memory and progression of experience rather than a literal image. Pedestrian trails and a foot bridge crossing the creek encourages nearby residents to walk to the new facility. The walk meanders past trees that filter the view of the facility, creating a feeling of suspense and curiosity. In the harsh Alaskan environment, exterior finishes tend to wear quickly. Natural, integral-colored, durable materials ensure a maintenance-free, quality appearance. The dining room character is created through the use of natural materials while respecting the need for quality finishes, furnishings, and lighting. The contrast of radial versus rectilinear geometrics, cedar shakes versus masonry, and carpet and wood versus tile and stainless steel enhance the visual experience. The rotunda and fireplace set a rustic tone with natural materials: stone near the base, log support columns and the heavy timbers as the space rises to the clerestory windows above. The conflicting notions of "rustic" versus "state-of-the-art" successfully coincide.

There are no public "corridors" as one enters and exits at the center of the building. The central element clearly defines the functions of the

building. The first-time visitor accesses spaces upon arrival without signage or additional instruction. Daylight into the kitchen, offices, and work areas and a courtyard adjacent to the employee's break room are features that give consideration to the support functions of the facility. The kitchen is equipped with heat-recovery units to capture cooking exhaust and heat the building.

## **Juror's Comments:**

*"Good site development, nice interiors, rugged spirit. Appears to solve problem, good radial plan, highly unique solution."*









*AIR FORCE SENIOR NONCOMMISSIONED  
OFFICER ACADEMY*

*Gunter Annex, Maxwell Air Force Base, Alabama*

*DESIGN:*

*Seay, Seay & Litchfield, PC/Livingston Design, Inc.*

*COMMAND:*

*Air Education and Training Command*

*DESIGN/CONSTRUCTION AGENT:*

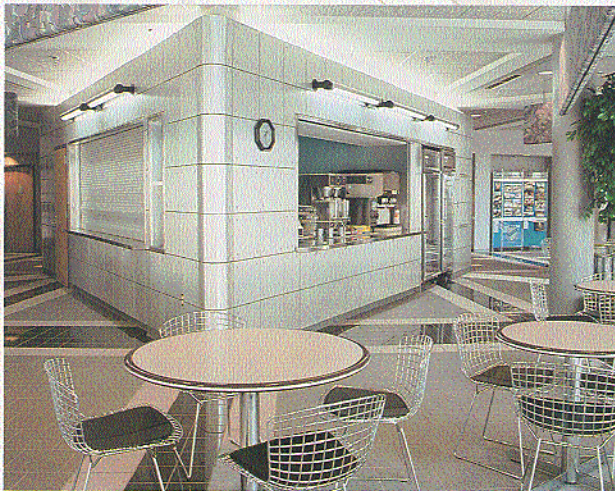
*Mobile District US Army Corps of Engineers*

*UNIT:*

*42nd Civil Engineer Squadron*

*CUSTOMER:*

*Senior Noncommissioned Officer Academy*



The objective of this project was to consolidate the existing Noncommissioned Officer Academy with a new addition that doubles student capacity. The challenge was to not only unify the existing and new buildings, but to also establish a prominent academic image. A major design objective was to make a statement emphasizing that selected Noncommissioned Officer's had earned access to quality education equal to any professional university. Walkways, amphitheaters, outdoor meeting areas and eating areas, ceremonial entrances, and a major courtyard featuring a clock tower help bolster the campus image.

Designed to accommodate 705 people, the auditorium provides space for teaching, lectures, guest speakers and dignitaries. It provides an area within the school that can accommodate the entire student body and faculty. Visual sight lines to the stage and state-of-the-art projection and recording equipment drive the design of the auditorium. The walls are a series of different "shaped" panels having both hard and acoustical surfaces. The auditorium lobby provides an impressive entrance to the school and serves as the connecting corridor between the classroom buildings, administrative areas, and break room. It also serves as a meeting and mingling area for students and guests. The finishes and colors create a professional atmosphere and instill a "high-tech" ambiance with warm grays, black, strong teal accents, aluminum, and chrome. Mahogany wood accents add additional warmth, richness, and texture.

**Juror's Comments:**

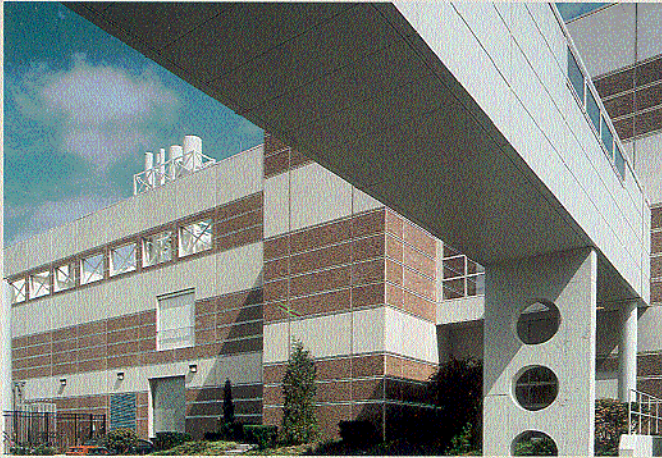
*"Interior detailing enhances  
architecture. Advanced aesthetics  
relates to advanced technology."*

The new classroom building accommodates twenty new seminar rooms. Providing natural light to each classroom was important. U-shaped table arrangements within the classrooms create a less formal setting and promote better communication between students and teachers. The sectionalized tables allow custom arrangement to meet individual class requirements. State-of-the-art instructional equipment with special casework for storage maximizes teaching efficiency. The classroom layout and facility offices surrounding a wide central hallway with individual entrances to each room required less space than originally programmed.









**MICROELECTRONICS LABORATORY**  
Hanscom Air Force Base, Massachusetts

**DESIGN:**  
*Anderson DeBartolo Pan Architects & Engineers*

**COMMAND:**  
*Air Force Materiel Command*

**DESIGN/CONSTRUCTION AGENT:**  
*66th Civil Engineer Squadron*

**UNIT:**  
*66th Civil Engineer Squadron*

**CUSTOMERS:**  
*Massachusetts Institute of Technology/Lincoln Laboratories*

Shared by Hanscom Air Force Base and the Massachusetts Institute of Technology, this 68,000 square foot facility provides laboratory space for the development of specialized integrated circuits. The design successfully promotes uninterrupted privacy for the staff members while encouraging collaborative efforts. The building also meets the goals of modernizing offices and laboratories, expanding technical capabilities, unifying the laboratory campus, and establishing a "high-tech" appearance for the laboratory facilities.

The design solution focuses on stringent technical requirements. The building is architecturally compatible with adjacent facilities, flexible in its internal configuration, integrates human needs into the design, and maximizes energy efficiency. The site and building design integrate and physically link the new facility to the existing Massachusetts Institute of Technology Lincoln Laboratory research site and fuse with adjacent research offices and support functions. This physical linkage provides secure access to the new laboratory, that has no entrance of its own. The siting and linking solution forms a landscaped courtyard area providing a gathering place for the workers. Exterior columns express the structure of the building along with clear span trusses that achieve interior flexibility by eliminating interior columns. The 8,100 square foot Class 10 clean room on the center level defines the central core of the building. This space is located on an elevated, isolated waffle slab structure to mitigate vibration. Glass-walled aisles surround the clean room on three sides, allowing public viewing and natural light into the laboratory area and helping to humanize the necessarily sterile environment. The exterior precast concrete materials complement the other building elements in the Massachusetts Institute of Technology modernization program while raising the standard for architectural modernization efforts throughout the campus. The window walls also complement the design of adjacent facilities and lend a sleek, high-tech image to the laboratory. Special controls for the mechanical systems enhance energy efficiency by allowing a reduction in clean room air flow during unoccupied periods, and separate humidity controls minimize re-heat requirements.

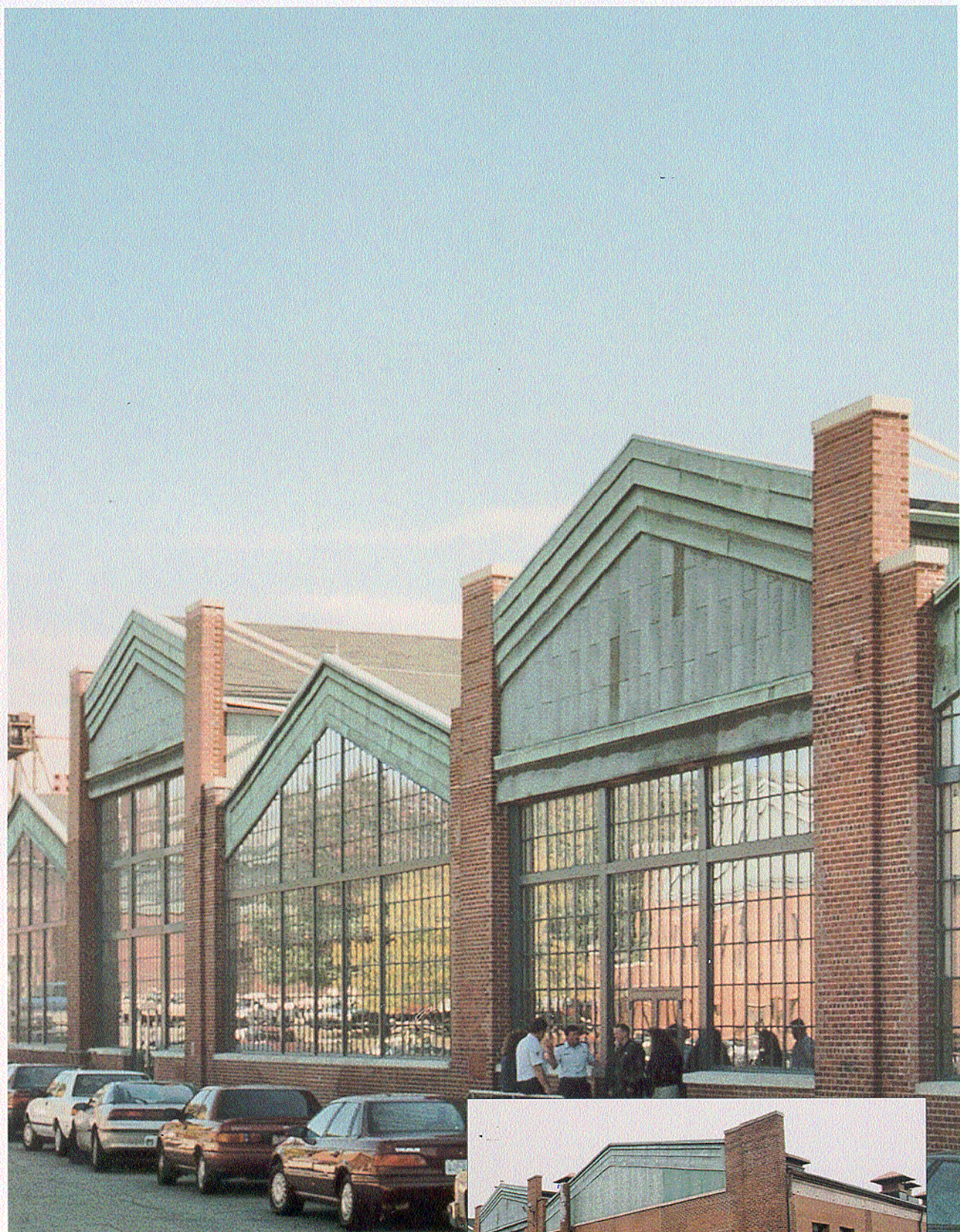
This new state-of-the-art research facility incorporates the most stringent functional requirements into a modern architectural design that is fully compatible with its environment.



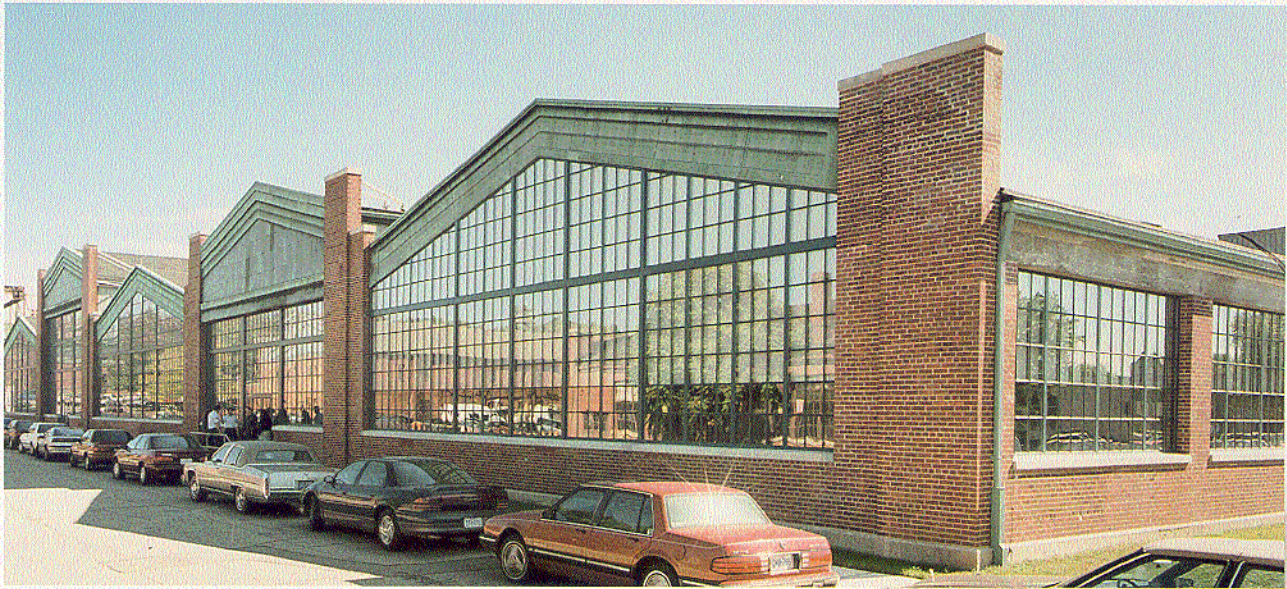
**Juror's Comments:**

*"Superb high-tech image that says, 'laboratory'. Well-refined details, meets technical facility goals."*









This project successfully converts an old industrial facility into a modern office environment while retaining the character of the original building. It serves as a transitional work area for personnel assigned to special projects. The generic work area provides efficient workspace for 300 persons with the flexibility to accommodate changing missions. Building 32 was one of the original facilities constructed at Wright Field in 1927 to serve as an aircraft repair shop. The building is a National Historic Landmark candidate thereby making restoration subject to the Secretary of the Interior, the State of Ohio, and the base historic preservation guidelines and standards.

The facility is composed of five bays, three of which are spanned by camel-back trusses. Two smaller but higher bays are situated in between. The clear spans of the three larger bays lend themselves to the open office plan with its inherent flexibility. The two smaller bays are accessible from either adjoining open office area and accommodate common use spaces such as conference rooms and copy rooms. Private offices are also located in these areas. The open office areas have high arched acoustical ceilings highlighted by exposed original trusses in the north and south bays, recalling the building's historic precedents. A central circulation corridor offers easy access to the office area while providing a convenient passageway through the facility. Rest rooms are located off this corridor.

Although the original structure was built in phases, each phase respects the design features established in previous stages. However, sixty years of uncoordinated alterations compromised the design integrity, leaving a variety of mismatched elements. Each phase is restored to reflect its historic past. Over the years, the original steel sash windows were removed, and the openings were infilled with brick and smaller windows. These openings are restored to their original character using new steel sash windows with interior storm windows. The Art Deco entry that was added to the west facade is restored to its original appearance, and the roof vents are restored to their original condition and color. Minor changes to the exterior of

the building were necessary to accommodate the new functions. These changes are consistent with the original design features and comply with the Secretary of the Interior Standards for Variance.

**BUILDING 32 REHABILITATION**  
*Wright-Patterson Air Force Base, Ohio*

**DESIGN:**

*KZF Incorporated Command: Air Force Materiel Command*

**DESIGN/CONSTRUCTION AGENT:**

*Louisville District US Army Corps of Engineers*

**UNIT:**

*88th Civil Engineer Group*

**CUSTOMER:**

*ASC F-15 Systems Program Office*



**Juror's Comments:**

*"Excellent quality of scale, good articulation of exterior, good interiors. Stimulating work space, excellent restoration, great circulation."*







**AIR FORCE SENIOR NONCOMMISSIONED  
OFFICER STUDENT DORMITORY**

*Gunter Annex, Maxwell Air Force Base, Alabama*

**DESIGN:**

*Seay, Seay & Litchfield, Architects/Interior Designers*

**COMMAND:**

*Air Education and Training Command*

**DESIGN/CONSTRUCTION AGENT:**

*Mobile District US Army Corps of Engineers*

**UNIT:**

*42nd Civil Engineer Squadron*

**CUSTOMER:**

*Senior Noncommissioned Officer Academy*

On-base quarters are required to house approximately 250 additional senior noncommissioned officers. This will double the Academy's student load. These accommodations ensure the residents live in a comfortable, healthy environment conducive to proper rest and individual well being.

The distinctive architectural design of the facility integrates into the new comprehensive campus master plan. The four-story building of approximately 85,000 square feet focuses upon a central courtyard and forms an edge for the clock plaza. The plaza is centered along an axial spine that collects and directs pedestrians from the dormitory area to the academic facilities. Staggering the blocks of dormitory rooms adds to the sense of community and reinforces the residential scale of the facility.

Centrally located dayrooms are positioned off the interior courtyard, providing areas for social gatherings and academic study. The large interior courtyard creates a relaxing environment conducive to informal socialization and passive activities. Balconies on the south and west facades minimize solar radiation on the exterior wall surfaces and serve as circulation elements. The brick and simulated plaster exteriors, along with roofing materials and the dark bronze anodized window frames, serve to unify the building with the existing dormitory complex and the surrounding Academy buildings.

**Juror's Comments:**

*"Interior space oriented towards pedestrians. Achieves a relaxing atmosphere, campus effect achieved."*









This facility provides an efficient high-tech environment for a prosthodontic laboratory that serves 41 satellite bases and other Department of Defense facilities and replaces an outdated facility at Lowry Air Force Base. The design goals include developing an efficient building layout considerate to the work flow and work tasks, creating a pleasant working environment, integrating the best available equipment for the required tasks, and complying with base design standards. The design responds to these goals in a modern, high-tech style consistent with the Peterson Air Force Base environmental design standards. Exterior materials consist of low-maintenance brick, prefinished insulated metal panels, tinted energy-efficient double pane windows, and solar-shading eyebrows over windows on the east, west and south elevations.

The interior configuration promotes flexibility in designing individual work space and maximizes the dramatic views of the Rocky Mountains. The facility houses three main functional areas: administrative, laboratory, and support. A quarter-circle module houses the administrative functions with offices arranged around a central reception area. A window wall at the perimeter of the quarter circle, with a solar eyebrow screen, provides natural light and views of the Rocky Mountains to the southwest. From the main entrance, the skylit north-south corridor extends the length of the building, past the lobby/administrative area into the laboratory spaces.

The administrative module is "rolled back" to the south to open the laboratory area's western wall to views of the Rockies, creating a feeling of openness. The main laboratory work area consists of a central, high-bay work space. The 21 workstations in this area have low partitions to provide a degree of privacy but still allow for natural light and exterior views. Located at the perimeter of the main lab, the support labs provide convenient access for the technicians. Most support labs are self contained to control noise and dust. Support spaces are located south of the main lab and are accessible from a lateral east-west corridor. Positioned at the terminus of the main corridor, the staff lounge mirrors the larger administrative area form. A window wall at the lounge mirrors that of the administrative area, affords spectacular views, and offers scenic relief from the tedious, detail-oriented lab work.

Skylights, clerestory windows, and generous curtainwall windows provide ample natural light to maintain a quality working environment. Additionally, they allow for high quality color rendition on the work product. State-of-the-art technical equipment placed in the high-tech building environment enhances the command's ability to successfully fulfill its Area Dental Lab mission.



#### *AREA DENTAL LAB Peterson Air Force Base, Colorado*

*DESIGN:  
Lescher and Mahoney/DLR Group*

*COMMAND:  
Air Force Space Command*

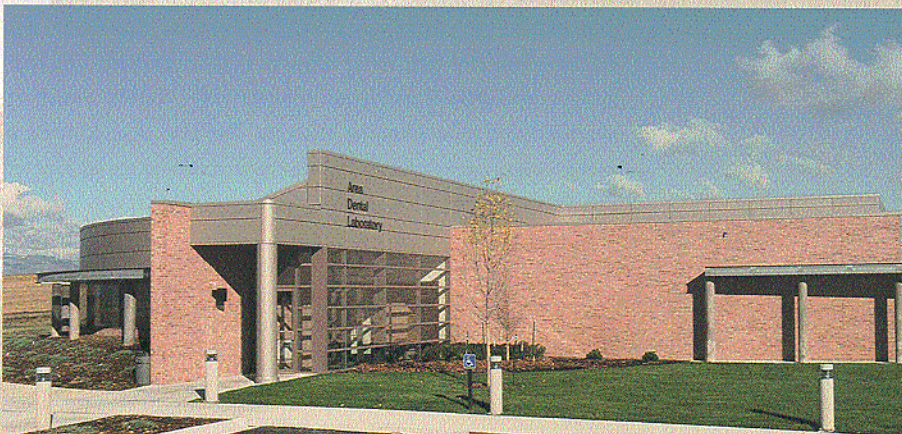
*DESIGN/  
CONSTRUCTION AGENT:  
Omaha District US Army Corps of Engineers*

*UNIT:  
21st Civil Engineer Squadron*

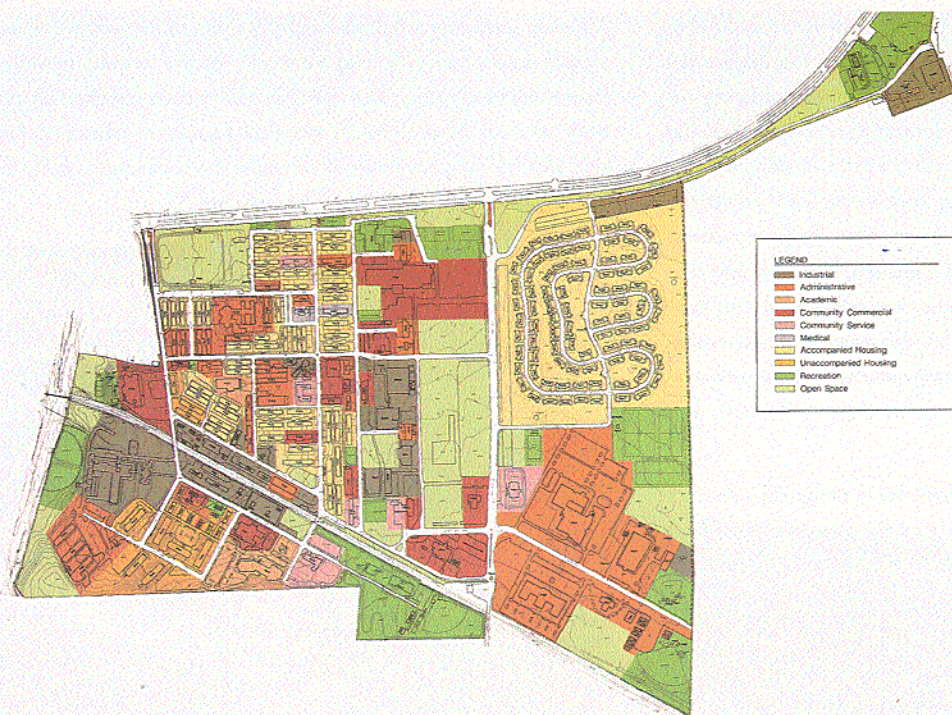
*CUSTOMERS:  
21st Dental Squadron/Air Force Medical Facilities Support  
Agency/Air Force Medical Facilities Office-Central Region*

#### **Juror's Comments:**

*"Efficient, high-tech image.  
Functional, compatible solution."*







### COMPREHENSIVE PLAN

*Gunter Annex, Maxwell Air Force Base, Alabama*

#### DESIGN:

*EDAW, Inc.*

#### COMMAND:

*Air Education and Training Command*

#### DESIGN AGENT:

*42nd Civil Engineer Squadron*

#### UNIT:

*42nd Civil Engineer Squadron*

#### CUSTOMER:

*42nd Air Base Wing*

### Juror's Comments:

*"Land use, transportation, and design guidelines are mutually supportive.*

*Document has a thorough and orderly presentation."*

This project creates a framework to effectively and efficiently manage the growth and development of Gunter Annex, home to the Air Force Standard Systems Center and Air Force Logistics Management Agency. The plan serves as a companion document to the Maxwell Air Force Base Comprehensive Plan. Mission changes and the expansion of Air University place a great demand on Maxwell Air Force Base's existing facilities and resources. This plan augments the Maxwell Plan and establishes the strategies for orderly planning and implementation of future facility requirements intended to improve mission execution and quality of life. The plan creates a pedestrian-oriented town center, integrating an efficient transportation network to serve the needs of the community. It ties together in a logical and cohesive fashion the future land use, facility development requirements, and other planning elements that influence the potential vitality of the installation. Developed with the latest state-of-the-art master planning techniques, the plan divides the installation into several nodes, creating an opportunity for the planner to define specific goals and themes, and allowing structuring of initiatives to accommodate the immediate and long range concerns in different areas. The plan features separation of pedestrian vehicular traffic, thereby sustaining neo-traditional town planning concepts. The plan also achieves a strong integration of planning components, building on an idea of community through placement, movement and appearance.



## CHILD DEVELOPMENT CENTER

Aviano Air Base, Italy

### DESIGN:

The OK Design Group

### COMMAND:

United States Air Forces Europe

### DESIGN AGENT:

Engineering Field Activity Mediterranean, US Navy

### UNIT:

31st Civil Engineer Squadron

### CUSTOMER:

31st Support Group

The United States Air Force Facility Design and Planning Guide for Child Development Centers states that, "The first experience of young children in group situations must develop is a sense of joy, trust, wonder and curiosity." This design successfully achieves these goals by establishing the quality of interior and exterior spaces as a primary factor in forming the social, emotional, and cognitive development of children. This facility provides a warm, friendly atmosphere that resembles "home", and gives children a sense of security and self-confidence.

Organizing activity rooms and support spaces around a central court contributes to a secure, functional, and imaginative center, forms the nucleus of the facility, and provides indoor play space. Visual control and supervision of all interior spaces are achieved, and playgrounds are a direct outdoor extension of the activity rooms for each age group. Service and support areas are effectively separated from children's areas.

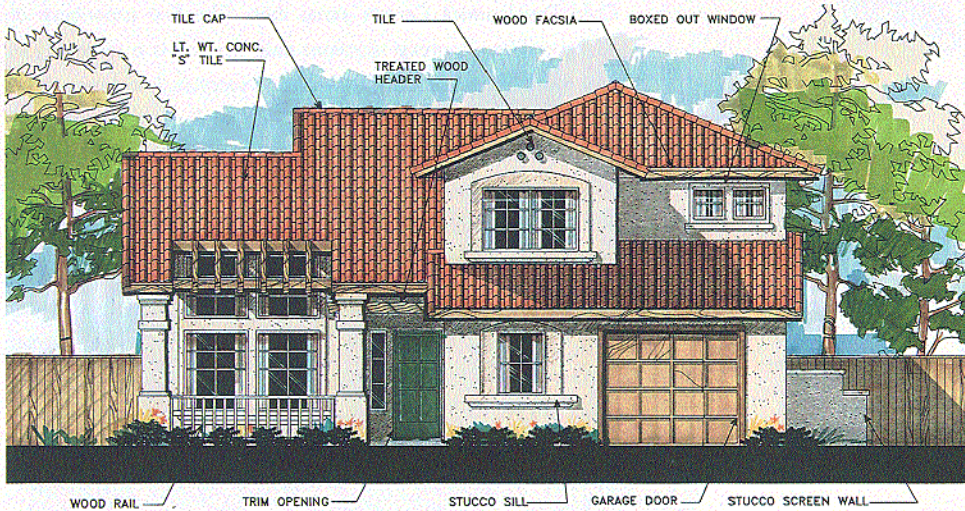
Well integrated into a very congested area of the installation, the facility respects existing site constraints and conditions. The main entrance canopy provides a strong visual element that readily identifies the Child Care Center while fitting in with the local architectural and construction vernacular.



### Juror's Comments:

*"Good clustering of elements, friendly to kids, well organized, goals achieved. Appropriate level of design for use, fits well into site and surroundings."*





A new emphasis on "Quality of Life" for Air Force families results in a solid commitment to improved housing and neighborhood environments. Vandenberg Air Force Base addresses this objective through the design of a housing community that meets or exceeds the quality standards of comparable private sector housing. This first phase of a multi-phased replacement program replaces 166 existing homes with one-story and two-story single family housing. The design meets all programming objectives and results in unique and innovative design solutions. The design complies with Air Force family housing design guidance, including easy conversion to meet federal handicapped accessibility guidelines. Special attention to the high threat of brush fires in Southern California resulted in specifying fire resistant exterior materials such as stucco, treated wood trim, and cement tile roofs. These long lasting materials accommodate concerns for fire resistance and low maintenance. Dwelling units are compatible with the typical regional housing construction vernacular, while providing a variety of floor plans and building elevations.

Houses are on short, low traffic cul-de-sacs providing safe, pleasant streetscapes for area residents. Yards are fenced for security and privacy. Landscaping employs indigenous drought-tolerant plants that complement the design scheme. Vehicular and pedestrian traffic are segregated by use of sidewalks, crosswalks and greenbelts. The pedestrian greenbelt, running the length of the neighborhood, is uninterrupted by cross streets. Features of the greenbelt include a bike trail, tot lots, and safe playing areas. The design makes maximum use of existing streets and the existing sewer and water distribution systems. Overhead electrical lines are placed underground to minimize visual clutter. Construction features include wall and roof insulation, double glazed windows, and energy efficient appliances meeting present energy code requirements. Energy efficient, long lasting compact fluorescence fixtures are used for most lighting, and water saving shower and toilet fixtures are standard. Daylighting is maximized in all interior living spaces to help reduce utility costs.

Standardized room elements are used in various combinations to create unique floor plans. A standard laundry module is offered, as is a standard bathroom module with multiple internal configurations.

The unit and site designs for the Vandenberg Air Force Base housing blend building forms and orientation, facade and roof treatment, as well as landscape elements, to create an inviting community. The "Quality of Life" for residents of this replacement housing will be enhanced by the more space-efficient and energy conserving dwelling units.

#### REPLACEMENT MILITARY FAMILY HOUSING PHASE I Vandenberg Air Force Base, California

DESIGN:  
Sverdrup Facilities, Inc.

COMMAND:  
Air Force Space Command

DESIGN AGENT:  
Air Force Center for  
Environmental Excellence

UNIT:  
730th Civil Engineer Squadron

CUSTOMER:  
30th Space Wing

#### Juror's Comments:

"Nice design, beautiful facilities, good quality of life. Well developed, represents understated excellence."



This design provides a cost-effective facility to serve as a single-point of health care for the Elmendorf Air Force Base and Fort Richardson communities, as well as the Alaska Department of Defense and Veteran Affairs referral center. This joint-venture project with Veteran Affairs is an excellent example of federal resource sharing concepts that are at the forefront of the health care reform movement. The replacement facility saves the government an initial \$46 million, not considering life-cycle energy and maintenance costs. The resulting 434,000 gross square foot replacement facility provides 110 inpatient beds, outpatient care and ancillary support functions.

To simplify user orientation and access to all areas, the facility is organized around the concept of a medical mall containing clinic waiting areas and public support functions, with the facility departments divided into three use zones. These include the 8-hour clinical uses, the 24-hour ancillary departments, and the nursing units. The more active services are located on the first floor; with other specialty departments on the second floor. Use of Integrated Building System (IBS) design influenced the location of outboard mechanical and electrical pods and the development of an interstitial walk-on deck between floors. This allows the building to easily accommodate reconfigurations and reuses.

Sensitively sited in its natural context, a forest of trees will remain at the front of the facility. Landscaping and paving provide the transition between the natural landscape and the man-made facility. Patient windows in the nursing wing are purposely oriented toward the wooded area that teams with wildlife. The resulting facility provides a high-tech, modern medical complex nestled within the pristine beauty of the rugged Alaskan wilderness.

### COMPREHENSIVE MEDICAL FACILITY *Elmendorf Air Force Base, Alaska*

#### DESIGN:

*Anderson DeBartolo Pan Architects & Engineers*

#### COMMAND:

*Pacific Air Forces*

#### DESIGN AGENT:

*Alaska District US Army Corps of Engineers*

#### UNIT:

*3rd Civil Engineer Squadron*

#### CUSTOMERS:

*3rd Medical Group/Air Force Medical Facilities Support Agency/Air Force Medical Facilities Office-Western Region/Department of Veteran Affairs VHA Western Region Office*



### Juror's Comments:

*"User friendly. Unique design solution, very compatible."*



Alaska's Kenai Peninsula, home to world class hunting, fishing and rugged natural beauty, influences the design theme for this facility. The new design offers a high degree of warmth; a departure from the rigidity of the utilitarian, rectangular concrete structure built in the 1950's. The dining room aesthetic relies on the use of natural materials while respecting the need for quality carpeting, furnishings, and lighting. Exposed, peeled-log structural members, forested from the peninsula, provide distinctive interior imagery. Wood wainscot and peeled-log interior siding emulate a rustic lodge dining experience. The wainscot ties integrally with the new booth design that is angled to break up the linear layout of the existing space. The old single serving line was replaced with a dual-line configuration, streamlining traffic flow. Wood windows replace the large, single-lite aluminum windows. Existing fenestration was altered by providing divided lites with extensive use of natural wood trim. This approach provides a sense of human scale and increases the intimacy of the space. This design emphasizes the Alaskan lifestyle with its rustic, yet clean, ambiance.

## Juror's Comments:

*"Good use of materials and sense of space. Warm and inviting, reflects rustic locality."*



### KENAI DINING FACILITY Elmendorf Air Force Base, Alaska

#### DESIGN:

Cash Barner Usher, Architects/Interior Space Design

#### COMMAND:

Pacific Air Forces

#### DESIGN/CONSTRUCTION AGENT:

3rd Civil Engineer Squadron

#### UNIT:

3rd Civil Engineer Squadron

#### CUSTOMER:

3rd Services Squadron

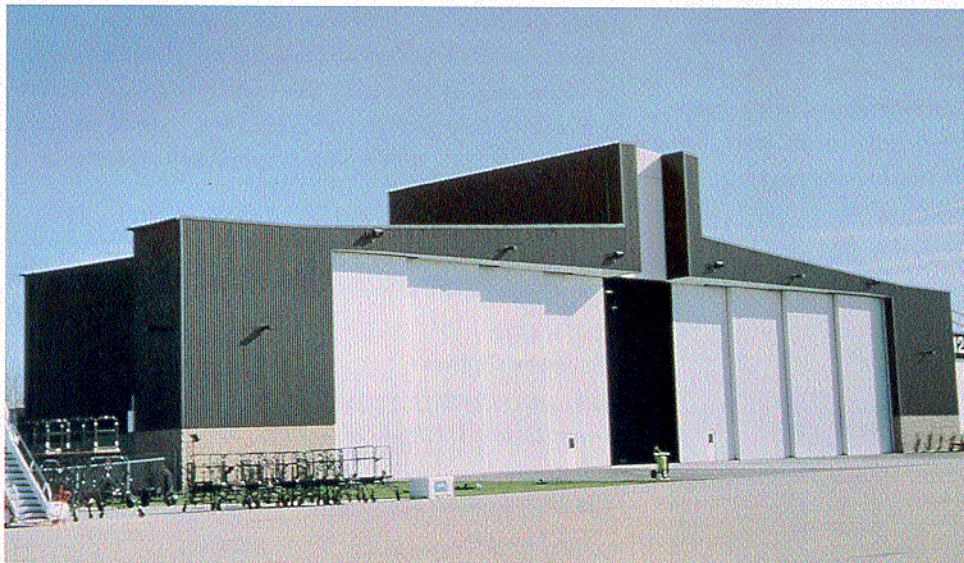


**AIRCRAFT MAINTENANCE HANGAR***Wisconsin Air National Guard, Milwaukee, Wisconsin***DESIGN:***Lev Zetlin Associates***COMMAND:***Air National Guard***DESIGN/CONSTRUCTION AGENT:***US Property and Fiscal Office/Wisconsin***UNIT:***28th Civil Engineer Squadron***CUSTOMER:***128th Air Refueling Group*

Future needs are well addressed in this hangar design that is sized to initially accommodate KC-135 aircraft and be easily modified to accept the KC-10 aircraft in the future. One of the primary goals for this facility was to design a long span structure to closely fit the profile of the aircraft, thus minimizing interior volume and material quantity. The hangar configuration, with its splayed walls and stepped-down, sloping roof, reduces the hangar's volume to minimize both construction costs and operational expense. The hangar is configured to accept an aperture door to fit around the rear body of the KC-10, allowing the tail of the aircraft to remain outside while the building is sealed from the elements. Alternately, the tail section of the larger aircraft can be enclosed within the hangar by allowing the nose to protrude through the existing roll-up door opening at the narrow back side of the facility.

Decorative, fluted block is used on the lower portions of the facility to soften the industrial appearance of the facility while providing impact resistance. Matching block screen walls hide mechanical equipment.

The inherent flexibility of this design provides the Air National Guard with a very functional maintenance facility capable of accommodating future changes.

**Juror's Comments:**

*"Elegant striking form that follows function. Good simple aesthetics for utilitarian facility."*





An integral part of a Crew Readiness Facility, this Family Visitation Facility supports the modified alert concept for the Air Force's "Looking Glass" airborne command post. The center serves aircrew members and their families during alert periods that last from two days to a week. The Crew Readiness Facility provides the alert crews a quality living and working environment resulting in improved operational effectiveness and high crew morale. The Family Visitation Facility fosters this goal by providing all the comforts of home with its large family rooms, fireplaces, and private family and dining rooms. Additionally, the building provides two large kitchen areas with ample storage and a playground with covered picnic areas.

The facility effectively uses brick veneer, gabled roof forms, and finish colors to complement not only the rest of the crew readiness complex, but the other structures within the planning zone. The residential flavor of this facility blends very well with adjacent industrial-type facilities.

#### *FAMILY VISITATION FACILITY*

*Offutt Air Force Base, Nebraska*

#### *DESIGN:*

*Dana Larson Roubal & Associates*

#### *COMMAND:*

*Air Combat Command*

#### *DESIGN/CONSTRUCTION AGENT:*

*Omaha District US Army Corps of Engineers*

#### *UNIT:*

*55th Civil Engineer Squadron*

#### *CUSTOMERS:*

*55th Wing/USSTRATCOM*

#### **Juror's Comments:**

*"Relates well to adjacent facilities, has good residential quality. Spaces well done."*



This Air Force and Veteran Affairs joint venture health care facility serves the growing number of active duty and retired military members, veterans and dependents in the Las Vegas, Nevada area. The facility successfully blends all United States Air Force and Veteran Affairs health care requirements into a functional, cohesive, modern, and cost efficient facility. The joint venture saved the government over \$35 million through the consolidation of needs and resources.

Design methodology includes organizing program functions into clearly defined zones for maximum efficiency. Functional zones are placed around a series of mechanical pods and open air courtyards to provide support system efficiency and orientation. Detailing of the facility creatively uses conservative materials, color, form, and natural daylight to achieve balance, harmony, and strength. To blend into the surrounding context of the base, the interior design scheme focuses on desert colors and southwestern motifs. The precast concrete exterior skin provides a rough, yet sophisticated, earthtone appearance appropriate for the desert location.

Energy conservation techniques include building orientation to avoid direct sun from east and west exposures and solar shading fins to block low altitude sun. The main circulation spine, entry lobby, and both multi-story waiting areas have a carefully designed system of clerestory glazing that successfully blocks direct solar radiation while allowing reflected natural light penetration. The landscape design features a hierarchy that provides judicious use of irrigated planting areas at building entrances, wide spread use of gravel areas as landscape features, dust control and water retention systems, and areas restored to their natural desert condition.

The result is a cost-effective, energy efficient health care facility that through careful design blends with its desert environment while providing a first class modern hospital to serve area patrons.

### Juror's Comments:

*"State-of-the-art design, well organized, great exterior views. Met program requirements, some well articulated spaces."*

### NELLIS FEDERAL HOSPITAL Nellis Air Force Base, Nevada

#### DESIGN:

*Hansen Lind Meyer*

#### COMMAND:

*Air Combat Command*

#### DESIGN AGENT:

*Sacramento District US Army Corps of Engineers*

#### UNIT:

*558th Civil Engineer Squadron*

#### CUSTOMERS:

*554th Medical Group/Air Force Medical Facilities Support Agency/Air Force Health Facilities Office-Western Region/Department of Veteran Affairs Medical Center Las Vegas, Nevada*





**ADDITIONS TO THE SENIOR  
NONCOMMISSIONED OFFICER ACADEMY**  
*Gunter Annex, Maxwell Air Force Base, Alabama*

**DESIGN:**

*Seay, Seay & Litchfield, Architects/Interior Designers*

**COMMAND:**

*Air Education and Training Command*

**DESIGN/CONSTRUCTION AGENT:**

*Mobile District US Army Corps of Engineers*

**UNIT:**

*42nd Civil Engineer Squadron*

**CUSTOMER:**

*Senior Noncommissioned Officer Academy*

**Juror's Comments:**

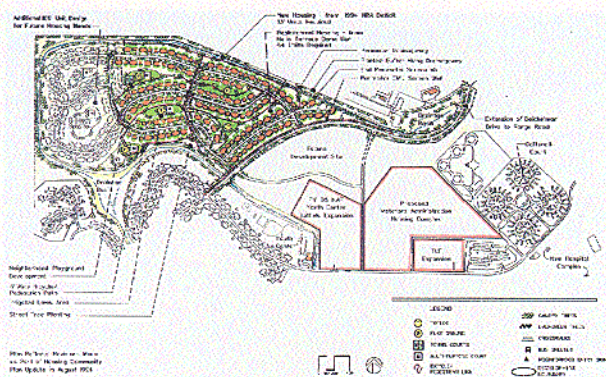
*"Interesting, unique architecture. Well executed space plan."*

The Senior Noncommissioned Officer Academy mission is changing dramatically. The number of students per class is increasing from 330 to 500, with total students increasing from 1,900 to 3,000 per year. Additionally, the campus has lacked a cohesive, unified character. The fourth and final phase of the Senior Noncommissioned Officer Academy expansion provides the needed additional capacity, serves as the focal point of the campus, and ties the other elements together. The auditorium and classroom wing of the new facility create an identifiable image and campus nucleus. The auditorium wing creates a formal entry for visitors to the campus as well as forming an inviting outdoor plaza for congregating students. Additional pockets of useable areas in the form of promenades and courtyards radiate from the entry plaza and form visual and pedestrian links with all other parts of the campus. Unification is further achieved through an extensive landscaping plan that includes screening of parking areas and the creation of a grassed campus quadrangle. Brick provides the principal exterior material, matching the existing building, as does the dark bronze anodized window framing. Overhangs and offsets shade the windows, and the glazing system uses tinted, insulated glass to further reduce solar gain.

The academy addition is connected to the existing Senior Noncommissioned Officer Academy building at entry points with direct access to the lobby. The building mass is pulled away from the existing structure to achieve a light well, a concept that permeates into the grand lobby through the use of clerestory windows. The auditorium, equipped with a complete state-of-the-art audio/visual system, consists of a large stage and 700 fixed seats. The seminar wing is located next to the auditorium, oriented perpendicular to the pedestrian plaza. This not only allows the breakdown of building masses, but also provides a gateway terminus at the end of the pedestrian mall leading from the dormitories. Orientation of the main facade to the northeast allows for a high quality of light to penetrate into the grand lobby.







**MILITARY FAMILY HOUSING COMMUNITY PLAN**  
Nellis Air Force Base, Nevada

**DESIGN:**

Booker Associates, Inc.

**COMMAND:**

Air Combat Command

**UNIT:**

Savannah District US Army Corps of Engineers

**DESIGN/CONSTRUCTION AGENT:**

558th Civil Engineer Squadron

**CUSTOMER:**

558th Support Group

The Military Family Housing Plan for Nellis Air Force Base is a comprehensive document highlighting planning and design solutions to achieve enhanced quality of life for the Air Force family. It thoroughly analyzes the existing family housing conditions from a whole house concept and arrives at solid recommendations to improve livability and aesthetics, promoting a sense of pride and neighborhood. The detailed, in-depth assessment of existing conditions provides a firm basis for identifying improvements designed to establish an efficient, attractive and executable plan. The active involvement of the client in the design process significantly contributed to solutions that were cost-efficient, practicable and quality-driven. The plan focuses on providing the amenities associated with contemporary private sector family housing complexes with a strong emphasis towards creating an aesthetically pleasing environment.

**Juror's Comments:**

"Comprehensive, solid report that can effectively guide housing development. Good use of color three dimensional graphics in presentation."



**CHILD DEVELOPMENT CENTER**  
Hanscom Air Force Base, Massachusetts

**DESIGN:**

Arrowstreet, Inc./Miller Dyer Spears Associated Architects

**COMMAND:**

Air Force Materiel Command

**DESIGN/CONSTRUCTION AGENT:**

New York District US Army Corps of Engineers

**UNIT:**

66th Civil Engineer Squadron

**CUSTOMER:**

66th Services Squadron

The interior design of this facility focuses on nature through the placement of an aquarium at the entry and windows designed at children's eye level to interconnect with the outdoors. Interior wall coverings and carpet are blue, green, and aqua in concert with earth colors. Life-size trees with singing birds and display photos are located in each classroom to reinforce the theme. A distinct identity was created for each classroom cluster using unique graphics, colors, and sculptural forms for visual stimulation and playfulness. A multi-purpose room floor simulates a road surface to enhance opportunities for creative play. Positive comments by parents and their children are testaments to the success of this facility. This child development center sets high standards, providing a unique, quality atmosphere and an environment reminiscent of the comforts of home.

**Juror's Comments:**

"Thoughtful design solution, inviting space to children."





**GOSSICK LEADERSHIP CENTER RENOVATION**  
*Arnold Air Force Base, Tennessee*

**DESIGN:**

*SSI Services, Inc.*

**COMMAND:**

*Air Force Materiel Command*

**DESIGN/CONSTRUCTION AGENT:**

*AEDC Civil Engineer*

**UNIT:**

*AEDC Civil Engineer*

**CUSTOMER:**

*Arnold Engineering Development Center  
 Quality Improvement Office*

Unique within the Department of Defense, this building's interiors facilitate an international leadership center conducive to the dynamics of analytical and creative thinking. Converted from a vacated noncommissioned officers' club, adaptation of the existing lounge, ballroom, and dining spaces created large, flexible areas suitable for varying group discussions. The design emphasizes a barrier-free, lively environment, that provides internal computer-audio-video communication networks through dispersed workstations accessible to working groups. Large, sliding writing panels create opportunities to individualize working spaces. The interior volume uses sloped and stepped acoustical ceilings with exposed spiral ducting to open up the space and reveal its internal working components. Due to overwhelming enthusiasm for the center as a meeting facility, more than 180 workshops occurred in FY94, a 228 percent increase over FY93 expectations.

**Juror's Comments:**

*"Great warmth and human scale. Flexible for changing mission, allows for free flow of group activities."*



**AIR MOBILITY COMMAND DESIGN CENTER INTERIORS**  
*Scott Air Force Base, Illinois*

**DESIGN:**

*Air Mobility Command Design Center*

**COMMAND:**

*Air Mobility Command*

**DESIGN/CONSTRUCTION AGENT:**

*375th Civil Engineer Squadron*

**UNIT:**

*375th Civil Engineer Squadron*

**CUSTOMER:**

*Air Mobility Command Design Center*

The Air Mobility Command Design Center consolidates the command's staff of design professionals to assist installation commanders in analyzing facility requirements. The primary design feature is the large glass "streetscape" panels that complement glass details that also occur in the office entrance doors. A glass block clerestory at the entrance ramp allows natural light to permeate through the reception and office space. Cherry wood finishes complement the charcoal gray colors used throughout the floors, walls, and systems furniture. Accent colors of teal, blue, and black are selectively used for seating and acoustic panels. The Design Center provides a showcase example that is reflective of Air Mobility Command's standards.

**Juror's Comments:**

*"Projects a professional image. Good selection of materials. Good lighting. Well organized."*





**STEWART HALL, ACQUISITION MANAGEMENT COMPLEX - PHASE I**

*Wright-Patterson Air Force Base, Ohio*

**DESIGN:**

*Hayes, Seay, Mattern & Mattern, Inc.*

**COMMAND:**

*Air Force Materiel Command*

**UNIT:**

*88th Civil Engineer Group*

**DESIGN/CONSTRUCTION AGENT:**

*8th Civil Engineer Group*

**CUSTOMER:**

*ASC Reconnaissance Systems Program Office*

This first phase of a 1.7 million square foot, nine-building complex provides a secure, professional open office environment for the Aeronautical Systems Division acquisition management offices. The goals of this design were to provide a functional, secure, and flexible building that provides a quality working environment attracting and retaining top level personnel. Additional goals were to create the distinctive architectural image of a first class headquarters facility while being unobtrusively integrated into the proposed complex.

The three-story, 108,000 square foot facility provides flexible office space within a secure envelope by positioning three vaulted work areas on each level, focused on a landscaped courtyard. An interior circulation system rings the courtyard providing visual and physical access to the outdoors while maintaining building security.

This building successfully establishes a new progressive and functional corporate image while anticipating future expansion.

**Juror's Comments:**

*"Strong exterior demarcation.*

*Corporate image with good interplay of architectural elements."*



**RUNWAY RESTORATION**

*Ascension Island, South Atlantic*

**DESIGN/CONSTRUCTION**

*823rd RED HORSE*

**COMMAND:**

*Air Force Space Command*

**DESIGN/CONSTRUCTION MGT:**

*Downrange Team, 45th Civil Engineer Squadron*

**UNIT:**

*45th Civil Engineer Squadron*

**CUSTOMER:**

*Detachment 2, 45th Operations Group*

This restoration of a fifty-year-old runway is cited for its outstanding planning, logistical staging and phasing. Constant use by heavy aircraft had rendered the runway unusable. Restoration work was completed in the shortest time possible while keeping a section of the runway open at all times and allowing the entire runway to be used at regular intervals. This was accomplished by procuring and shipping construction materials and equipment, airlifting construction workers and some minor supplies. RED HORSE personnel and equipment were used to set up a batch plant and construct a temporary port facility for the delivery of materials. The construction schedule was carefully coordinated with flight schedules to allow continuous runway operations. By using in-house resources, the Air Force delivered a superior product on schedule at considerable cost savings, even with interruptions such as the Somalia Operation and a hurricane.

**Juror's Comments:**

*"Outstanding in-house project management effort.*

*Commendable savings in design and construction costs."*





**AREA DEVELOPMENT PLAN, MULTI PURPOSE  
ADMINISTRATION FACILITY**  
*March Air Force Base, California*

**DESIGN:**

*Sacramento District US Army Corps of Engineers*

**COMMAND:**

*Air Mobility Command*

**UNIT:**

*722nd Civil Engineer Squadron*

**DESIGN AGENT:**

*Sacramento District US Army Corps of Engineers*

**CONSTRUCTION AGENT:**

*Los Angeles District US Army Corps of Engineers*

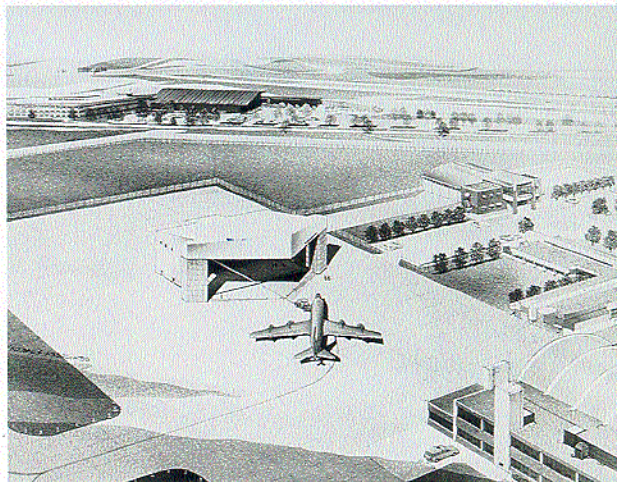
**CUSTOMERS:**

*Air Force Audit Agency Financial and Support Audits Directorate/  
362nd Recruiting Squadron /Air Force Office of Special  
Investigations 3rd Field Investigations Region*

An excellent example of area development planning! The plan achieves an economy of function by creating a pleasing shared exterior environment. The plaza design, landscaping and site features blend well with the architectural style and materials portrayed in the buildings themselves, giving the area a sense of balance, scale and continuity. The design does an excellent job of interpreting the style and ambiance of Southern California's traditional Mediterranean character in a modern Air Force setting. Entry into the complex is inviting and intimate. The "town square" gazebo not only provides a strong visual focus within the courtyard, but creates opportunities for social interaction. The blend of landscaping, street furniture and exterior lighting in concert with the architectural details of wrought iron grillwork and stucco walls works extremely well to create a cohesive and attractive setting.

**Juror's Comments:**

*"Feels friendly. Good courtyard design."*



**FUEL SYSTEMS MAINTENANCE HANGAR**  
*Nebraska Air National Guard, Lincoln, Nebraska*

**DESIGN:**

*Dana Larson Roubal and Associates*

**COMMAND:**

*Air National Guard*

**DESIGN/CONSTRUCTION AGENT:**

*US Property and Fiscal Office/Nebraska*

**UNIT:**

*155th Civil Engineer Squadron*

**CUSTOMER:**

*155th Air Refueling Wing*

The Nebraska Air National Guard at Lincoln, Nebraska recently changed its mission from the flight and support of the F-4 aircraft to the KC-135 tanker. This resulted in a need for new facilities to accommodate the larger aircraft, such as the fuel systems maintenance hangar. Because of budget constraints, the Guard initially envisioned only a partial enclosure of the KC-135 aircraft. However, with an efficient structural system coupled with a form closely following the profile of the aircraft, the resulting design accommodates the entire aircraft. The design quality of this hangar lies in its simple, efficient form.

**Juror's Comments:**

*"Efficiently encloses aircraft with a creative structural and architectural solution."*



## JURY MEMBERS

### *Planning, Urban Design, and Landscape Design*

#### **Kenneth L. Reinertson (Chair)**

Headquarters United States Air Force  
Office of The Civil Engineer, Washington, DC  
*Planner*

#### **J. Kipp Shrack, FASLA**

LDR International  
Columbia, Maryland  
*Landscape Architect*

#### **Brian Stephenson, ASLA**

Stephenson & Good  
Washington, DC  
*Landscape Architect*

### *Interior Design*

#### **Sandra W. Warner, IIDA (Chair)**

Air Force Center for Environmental Excellence  
Brooks Air Force Base, Texas  
*Interior Designer*

#### **Charles Blumberg, FIBD**

National Institute of Health  
Bethesda, Maryland  
*Interior Designer*

#### **Stephen Hammond, IIDA**

Duball/Hendricks, Inc.  
Washington, DC  
*Interior Designer*

### *Architectural/Engineering*

#### **R. Mikeual Perritt, AIA (Chair)**

Air Force Center for Environmental Excellence  
Brooks Air Force Base, Texas  
*Architect*

#### **Stanley M. Bell, AIA**

Associate Dean for Architecture  
Andrews University, Michigan  
*Architect*

#### **Steven Hurtt, AIA**

Dean, School of Architecture  
University of Maryland  
*Architect*

#### **Mr. Charles Stanmyre, AIA**

Stanmyre & Noel Architects  
Reston, Virginia  
*Architect*

#### **Ronald J. Hubbard, AIA**

C&H and Associates  
Alexandria, Virginia  
*Architect*

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#### **The Civil Engineer:**

*Major General James E. McCarthy*

#### **Deputy Civil Engineer:**

*Dr. Robert D. Wolff*

**This Annual Report was prepared by the  
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UNITED STATES AIR FORCE



DESIGN AWARDS PROGRAM

1995