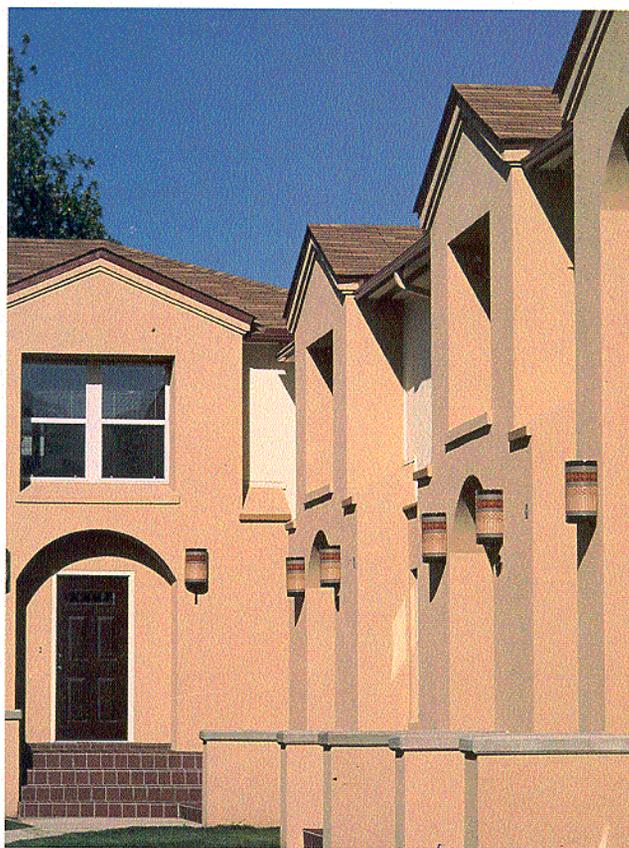


UNITED STATES AIR FORCE

Design Awards Program

1996



UNITED STATES AIR FORCE

1996 Design Awards Program



The Air Force Team performs great work every day in projecting our image of a highly technical aerospace force committed to peace through strength. One of the most important ways we project this image is through our built environment. The Air Force takes great pride in its installations and facilities. We look upon our installations as more than just buildings and infrastructure – they must form well planned communities.

The winners in this brochure represent the services we provide and the level of quality we seek for all Air Force projects. Quality begins up front – it is the hallmark of all our projects. We must be good stewards of our resources, and these projects are evidence that we are focusing on quality in the design process, which is the first step in producing excellent facilities and installations.

The Design Award Program goes beyond being a competition. It is a vital tool the Air Force uses in communicating our expectations to the design and construction community. The brochure we publish each year conveys our standards for design excellence.

A USAF Design Awards Program award certificate represents the combined talents and professional pride of many individuals. We work as a team, and the Design Award Program is one way we recognize that teamwork. I challenge the design community to apply the highest professional standards and build on the success of these projects by capturing the team spirit that led to their excellence.

A handwritten signature in black ink, reading "Eugene A. Lupia". The signature is fluid and cursive.

Eugene A. Lupia
Major General, USAF
The Civil Engineer

DESIGN AWARDS PROGRAM

Honor, Merit, and Citation

This Annual Report marks the twenty-first 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 Studies, Design Guides, Housing Community Plans, and Landscape Design submittals were reviewed by a distinguished jury composed of three members of the American Society of Landscape Architects. 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 three members of the American Institute of Architects, with the chairperson representing the Society of American Military Engineers.

With the selection of this year's award winning projects, the Air Force has honored one hundred fourteen completed facilities, eighty-four concept projects, twenty-nine planning and landscape design projects, and twenty-eight 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 AWARDS

PLANNING STUDIES AND DESIGN GUIDES

Master Plan

Kulis Air National Guard Base, Alaska

Modernism at Mid Century

The Architecture of the United States Air Force Academy

HOUSING COMMUNITY PLANS

Dormitory Community Plan

Elmendorf Air Force Base, Alaska

CONCEPT DESIGN

Fire Station

Hancock Field Air National Guard Base, New York

Composite Dining Hall and Medical Training Facility

Burlington International Airport, Vermont

INTERIOR DESIGN

Child Development Center

Elmendorf Air Force Base, Alaska

MERIT AWARDS

PLANNING STUDIES AND DESIGN GUIDES

Facilities Excellence Plan
Eastern Range

Facilities Excellence Plan
Cheyenne Mountain Air Station, Colorado

Facilities Excellence Guide
Air Force Space Command

CONCEPT DESIGN

Collocated Club
Scott Air Force Base, Illinois

Honor Guard Operations Facility and Site Plan
Bolling Air Force Base, District of Columbia

Youth Center Ballfield Complex
Dyess Air Force Base, Texas

INTERIOR DESIGN

Chapel Annex Interior Renovation
Los Angeles Air Force Base, California

Iditarod Dining Facility
Elmendorf Air Force Base, Alaska

FACILITY DESIGN

Defense Megacenter
Tinker Air Force Base, Oklahoma

Aircraft Parts Warehouse
Pope Air Force Base, North Carolina

Elementary School Addition
RAF Lakenheath, United Kingdom

FAMILY HOUSING

Billy Mitchell Village, Phase V
Kelly Air Force Base, Texas

Military Family Housing, Phase I
Vandenberg Air Force Base, California

CITATION AWARDS

PLANNING STUDIES AND DESIGN GUIDES

Automated Facilities Excellence Plan
Falcon Air Force Base, Colorado

CONCEPT DESIGN

Dormitory Complex
Edwards Air Force Base, California

INTERIOR DESIGN

Base Supply/Customer Service Facility
Vance Air Force Base, Oklahoma

Refurbishment of Dining Hall
RAF Mildenhall, United Kingdom

LANDSCAPE DESIGN

Child Development Center
Altus Air Force Base, Oklahoma

Parade Ground Reviewing Stand
Scott Air Force Base, Illinois

HONOR AWARD

Planning Studies + Design Guides



EXECUTIVE SUMMARY

MASTER PLAN

KULIS ANG BASE



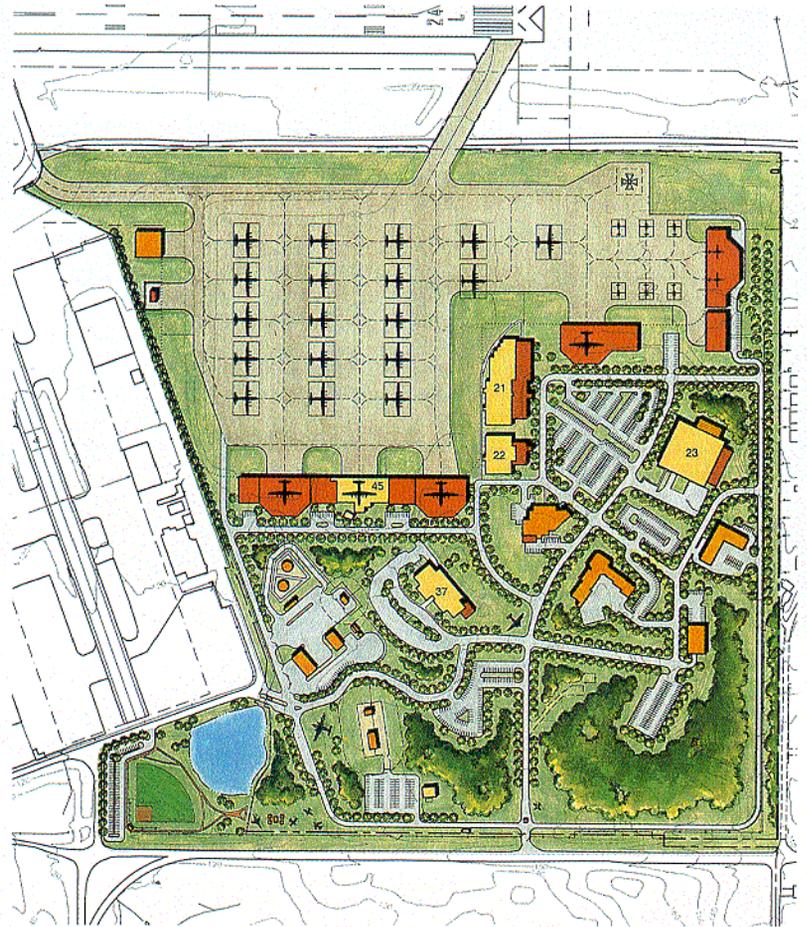
ANCHORAGE INTERNATIONAL AIRPORT
ANCHORAGE, ALASKA

This planning document provides a comprehensive vision and plan of action to the Alaska Air National Guard. It includes recommendations for improving mission capabilities, readiness, and environmental compatibility. Stakeholders from the base were enlisted early in the planning process to work with the designers to establish goals and objectives for the master plan. These objectives were used throughout the plan development process to evaluate specific planning recommendations. A collaborative charrette was also used early in the planning process to evaluate and select preferred development alternatives. Subsequent plan development used a more formal submittal and review process.

One of the major results of the project has been to address a variety of different audiences with specific needs:

- *The Air National Guard Bureau and the Alaska Air National Guard are provided with a vision of the long-range development capability of the base to accommodate new missions.*
- *The Base Commander has a superior promotional and executive summary document to assist in the marketing of the base's capabilities when competing for resource allocations.*
- *The Base Civil Engineer receives an implementable short-term as well as long-range action plan to fully accommodate current missions.*
- *Base programmers and planners are given electronic CADD and facility programming decision support tools that can be used on a day-to-day basis for actual plan implementation.*
- *Base operations and maintenance staff now have specific design details and guidelines to enhance individual project implementation.*

This project generated tremendous base-wide and command-level interest and commitment to implementation of the base's vision and the specific action plans. The proposed solutions are original, appropriate, and comprehensive.



Jurors' Comments

"Well documented, graphically powerful plan portrays both the short-term and long-range vision. The concise summary poster communicates the essence of the plan."

Master Plan, Kulis Air National Guard Base, Alaska

Design: Nakata Planning Group

Command: Air National Guard

Design Agent: US Property and Fiscal Office/Alaska

Base Engineer: 176th Civil Engineer Squadron

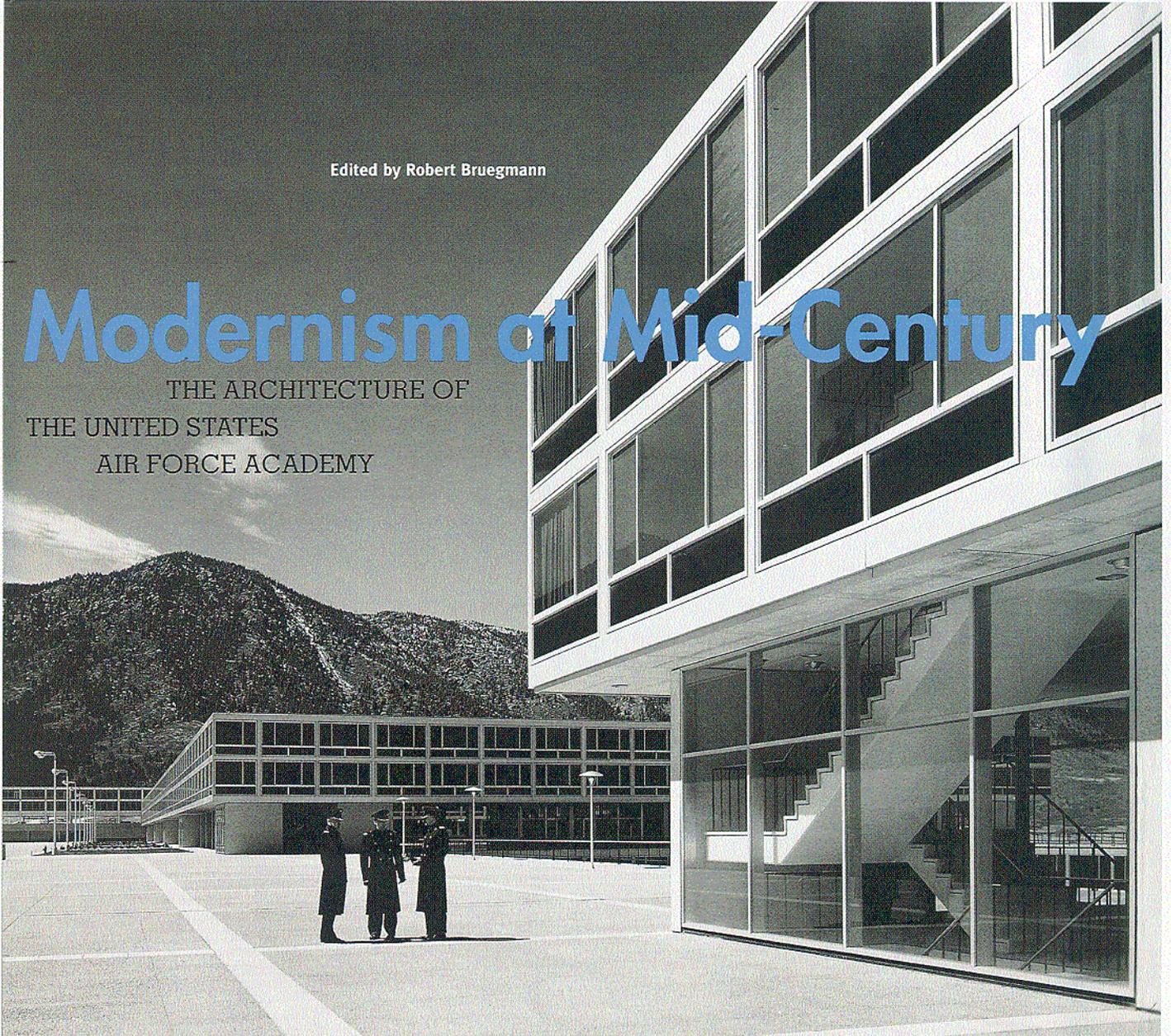
Customer: 176th Wing

HONOR AWARD
Planning Studies + Design Guides

Edited by Robert Bruegmann

Modernism at Mid-Century

THE ARCHITECTURE OF
THE UNITED STATES
AIR FORCE ACADEMY



The concept of this book was to document thru oral histories and graphics, the important role the Academy has played in projecting the Air Force image. From a practical standpoint, the publication is the basis for historic preservation planning, and the continuation of the Academy's heritage of design excellence.

As a valuable educational tool, the book provides historians a link to modernism, of which little has been written. For architects and planners, it provides insight into the design of one of America's most significant architectural projects. For the government, the book traces an unprecedented partnership between the public and private sectors to create the Academy as a landmark in our society.



Modernism at Mid-Century, the Architecture of the United States Air Force Academy

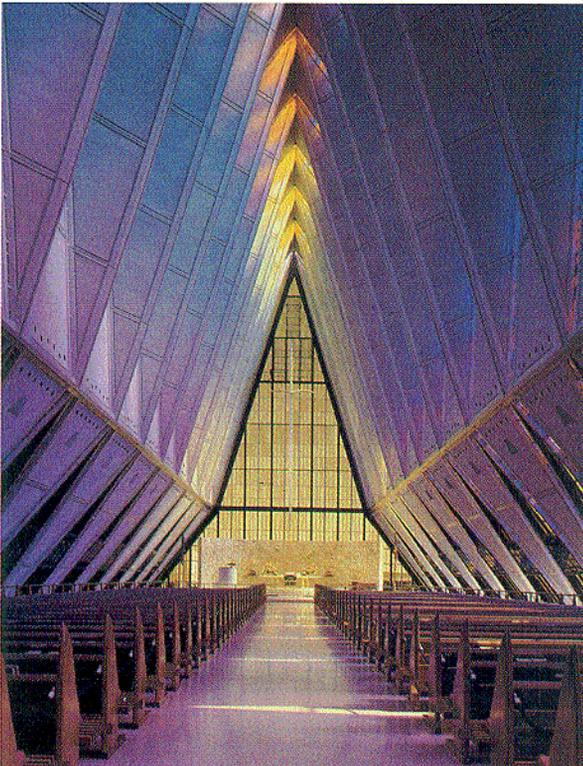
Design: Skidmore, Owings and Merrill

Publisher: The University of Chicago Press

Editor: Robert Bruegmann

Command: United States Air Force Academy

Base Engineer: 10th Civil Engineer Group



Jurors' Comments

"This verbally colorful document embraces the cultural significance of this landmark planning and design project through factual and anecdotal reference. A must for your library."

HONOR AWARD

Housing Community Plans



■ Community Fitness Center

The airmen designated this facility as the most needed. It will afford the convenience of not driving to the other end of the base to the crowded base sports complex. The center has the opportunity to promote camaraderie among airmen. More important, it will allow walk-in access to those airmen without a mode of transportation.

■ Ski/Hiking Trails

From the present airmen community, access to the ski/hiking trail can be easily established to allow convenient entry into many outdoor activities. These trails can be lighted to allow activities in short winter day light.

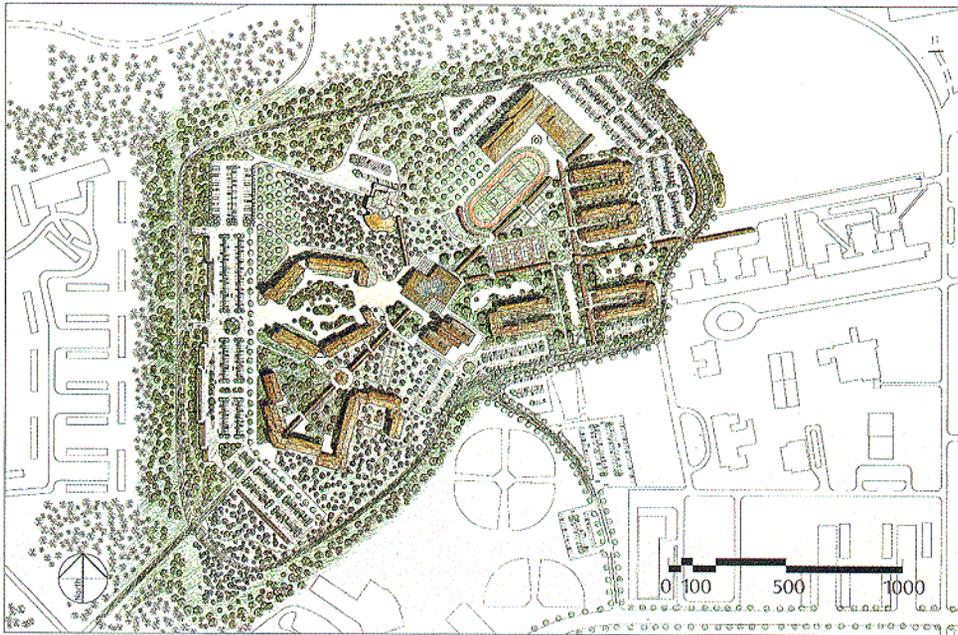
■ Play Field

The multi-use play field will contain activities ranging from soccer and flag-football to various public ceremonies. This recessed athletic field, situated next to the proposed community physical fitness center, will allow airmen to enjoy outdoor activities and indoor convenience.

■ Skating Pavilion

This covered structure will be a year round hub for outdoor activities. During winter, it will become a covered skating area for the airmen's community.



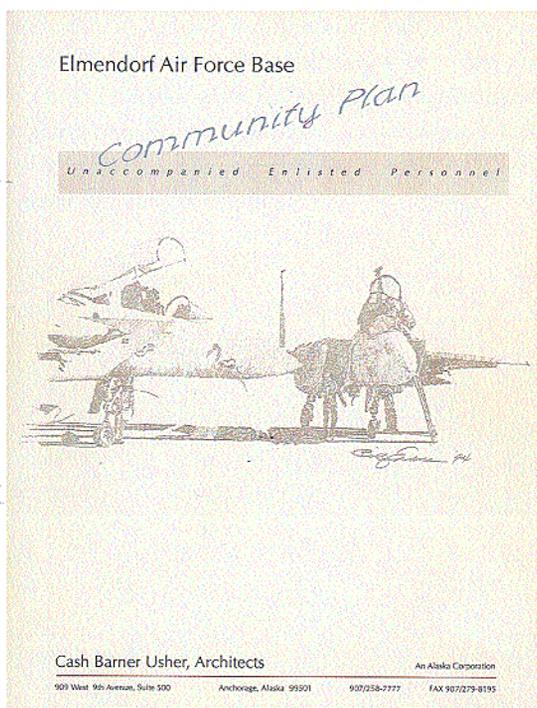


This Housing Community Plan provides unaccompanied enlisted personnel with housing for the quality lifestyle needed in today's Air Force. It recognizes the climatic influences at this northern-tier base where climates and darkness can have a negative effect on quality-of-life.

This plan enhances every aspect of the neighborhood experience, from within the sleeping room, to the shape and look of the residence buildings and surroundings and their relationship to services and facilities such as fitness centers and convenience stores. This plan also accommodates year-round outdoor activities while allowing the residents to choose alternative indoor activities. New emphasis is focused on a pedestrian-based campus that will reduce base traffic, conserve resources and enhance winter air quality. Pathways are covered to reduce snow removal requirements.

Jurors' Comments

"This project sets the standard for planning of projects of this type. Planning process is superior, solution is superior (responsive to user needs and climate constraints), documentation of the product is superior."



Dormitory Community Plan, Elmendorf Air Force Base, Alaska

Design: Cash Barner Usher, Architects

Command: Pacific Air Forces

Base Engineer: 3rd Civil Engineer Squadron

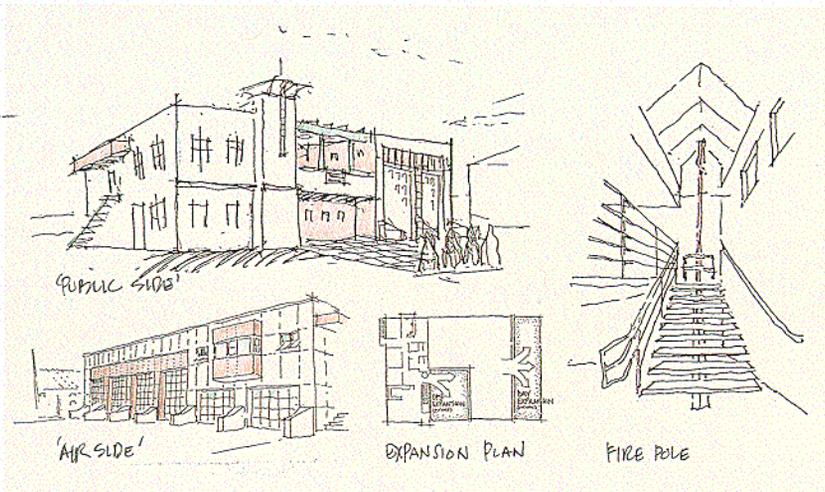
Cash Barner Usher, Architects

An Alaska Corporation

909 West 9th Avenue, Suite 300 Anchorage, Alaska 99501 907/258-7777 FAX 907/279-8195

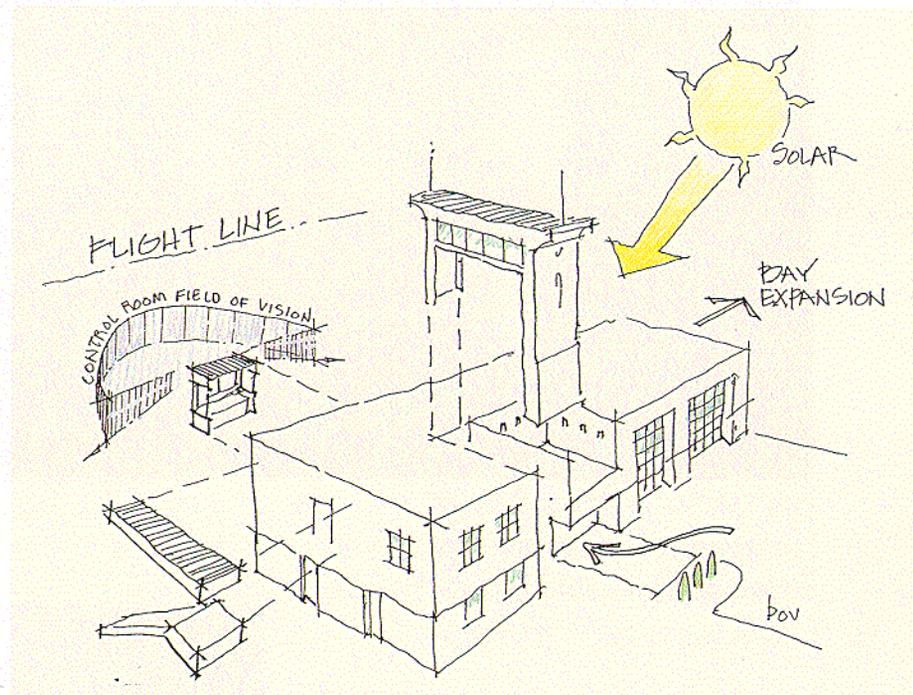
Jurors' Comments

"Very compatible with its surroundings, good in detail. Well developed details, elevations, and spaces. A logical, simple plan."



This design successfully integrates functionality, cost effectiveness and architectural design into a striking new fire station and emergency response facility.

The plan develops separate living, administrative and mission spaces through internal zoning in a well ordered, compact arrangement. The building introduces natural light into equipment bays, operations space, and living areas through skylights and clerestory windows. An ionic "tower" form identifies the building as a fire station and marks the entrance to the facility. Glazed overhead doors highlight fire fighting equipment, create inviting work space in the bays, and promote safety through visual continuity with the paved aprons.



Fire Station, Hancock Field Air National Guard Base, Syracuse, New York

Design: Quinlivan, Pierik & Krause, Architects/Engineers

Command: Air National Guard

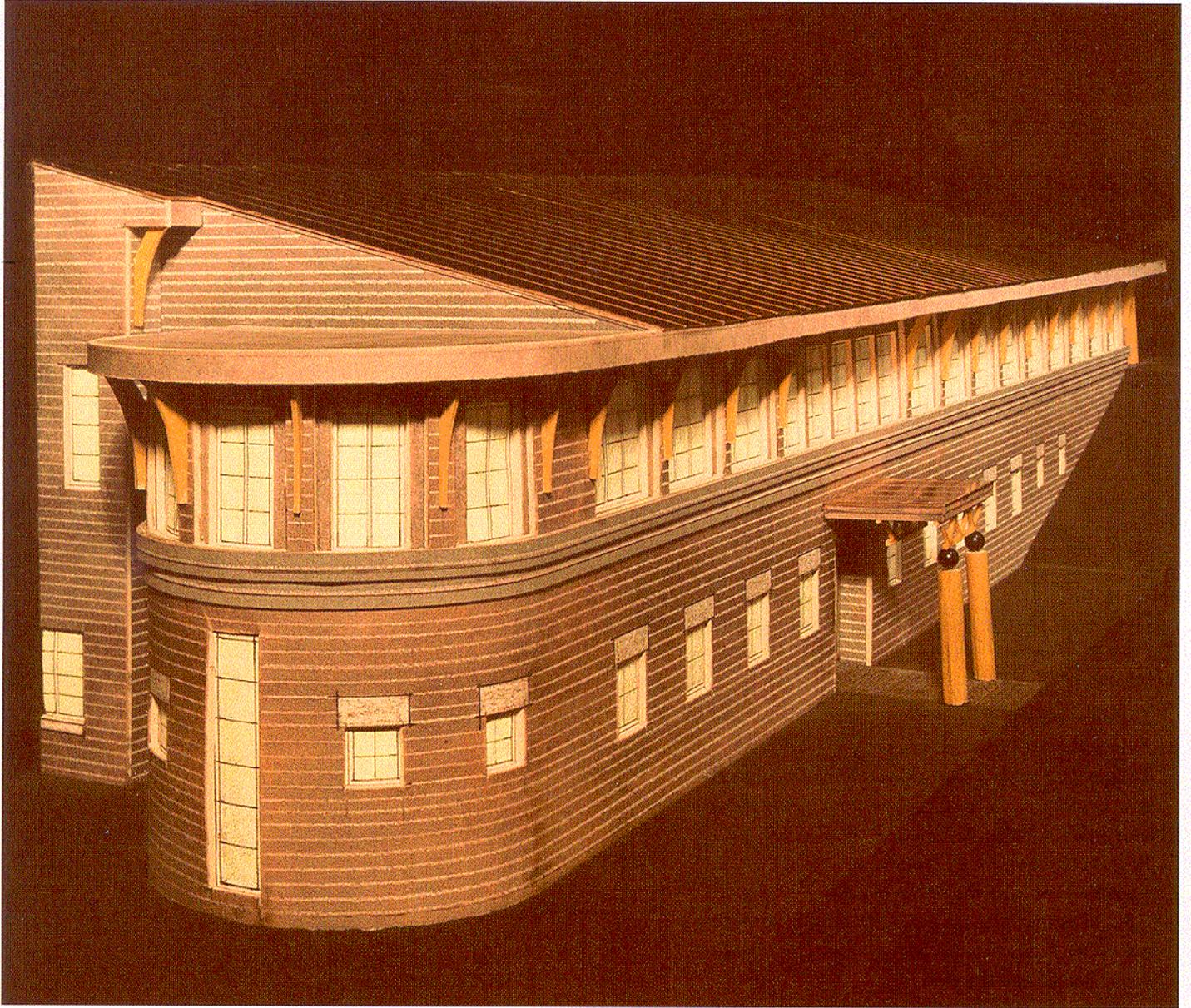
Design Agent: US Property and Fiscal Office/New York

Base Engineer: 174th Fighter Wing/DE

Customer: 174th Fighter Wing/DEF

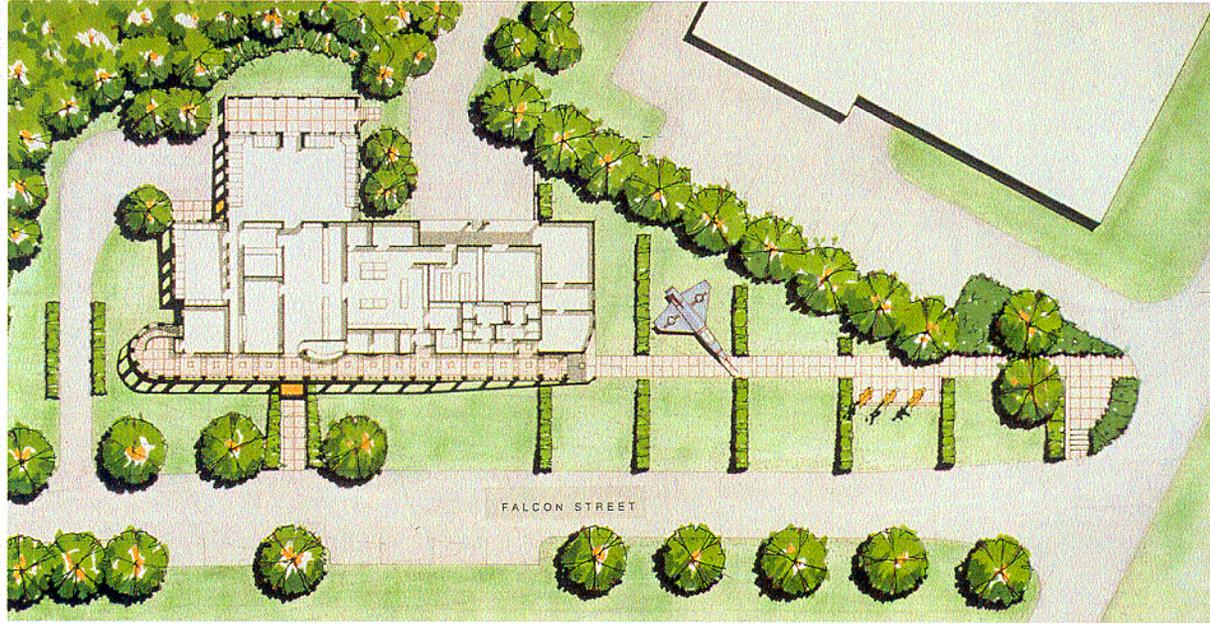
HONOR AWARD

Concept Design



The Composite Medical and Dining Facility replaces substandard facilities on the base. The Dining Hall will serve approximately 1,000 customers per day with a seating capacity of 250 persons. It will also be used for banquet functions. The Medical Facility will provide clinical and training space for approximately 60 persons.

The site of this facility is wooded and steeply sloped to maintain the integrity and natural beauty of the site while benefiting from the grade change. Although both functions occupy the same building, each enjoys the benefits of a strong and distinctive public entry and identity. Extensive service access areas for each function, including a covered loading dock for the kitchen, are organized out of public view. The entry to the upper level dining facility is marked by an existing decommissioned F-102 aircraft mounted 15 feet above grade. The south elevation is deliberately understated to provide a backdrop for this existing plane. On approach to the entry, one passes directly under the wing tip of the aircraft. The entry opens onto a dramatic, naturally lit, single-loaded corridor that also serves as the waiting area to the dining hall. This circulation axis extends onto the site, terminating at a small landscaped plaza occupying a central location on the base. A dynamic staircase connects the two levels and links the major circulation on each floor. The curved stair tower is expressed on the exterior as a strong counterpoint to the basic building volume. It creates a unique and memorable image on a relatively understated building whose simple form and materials are compatible with those found on the base. Deep roof overhangs that shield low angle east and west sunlight are punctuated with aluminum exterior support brackets.



Composite Dining Hall and Medical Training Facility

Burlington International Airport, Vermont

Design: Smith-Alvarez-Sienkiewicz, Architects

Command: Air National Guard

Design Agent: US Property and Fiscal Office/Vermont

Base Engineer: 158 Fighter Wing/CE

Jurors' Comments

"Good solution to difficult mix of functional requirements. Elegant elevations, nice rhythm. Continuity in design and spirit."



HONOR AWARD

Interior Design



This Child Development Center accommodates pre-school age children and meets the growing needs of quality military family life at Elmendorf Air Force Base. The center is a youthful and exciting place that successfully conveys a feeling of warmth and caring.

The rich, warm coral background palette is peppered with complementary accents in bright blues. The gable forms, tile accents, reception banding, and carpet borders, provide design continuity throughout the facility. Individuality among learning centers is achieved through variations of the shapes on the floor plane, countertop colors, and acoustic wall fabrics. Gentle ambient lighting is provided at the entry/reception hall and carried down each wing through suspended linear uplights at the vaulted ceilings. This is a successful solution for the long hours of wintertime darkness in Alaska.



Jurors' Comments

"Good concept and follow-through. Use of color is appropriate for function and climate. Organization of space supports child development. Excellent programming and process."



Child Development Center, Elmendorf Air Force Base, Alaska

Design: Interior Space Design

Command: Pacific Air Forces

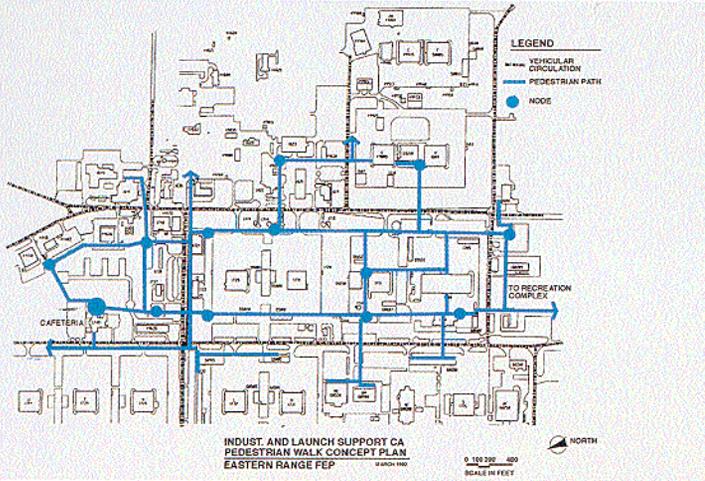
Design Agent: Alaska District US Army Corps of Engineers

Base Engineer: 3rd Civil Engineer Squadron

Customer: 3rd Services Squadron

MERIT AWARD

Planning Studies + Design Guides



Facilities Excellence Plan, Eastern Range

Design: Johnson Controls, Inc.

Command: Air Force Space Command

This Facilities Excellence Plan provides basic principals, general concepts, and specific guidelines that are applicable to the planning and design of major new facilities, all additions and alterations, exterior renovations, and on-going maintenance activities for Air Force Space Command's Eastern Range.

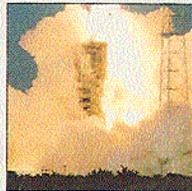
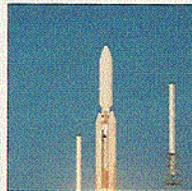
A three-phase approach was used to complete this plan. The first phase involved data collection and analysis during which an extensive visual survey was conducted to uncover the strengths and weaknesses of the existing environment. General concepts for buildings, landscape design, and site elements were developed during the second phase, and the third phase focused on the development of the design recommendations as well as conceptual plans for specific areas.

This plan will be adopted as a "living document" and reviewed and updated yearly as needed. It will serve as a comprehensive source book for improving the built environment at one of America's major national ranges.

Eastern Range

FACILITIES EXCELLENCE PLAN

Cape Canaveral AS
Florida Annexes
Antigua AS
Ascension AA



Jurors' Comments
"Comprehensive inventory
and planning document."

Facilities Excellence Plan,

Cheyenne Mountain Air Station, Colorado

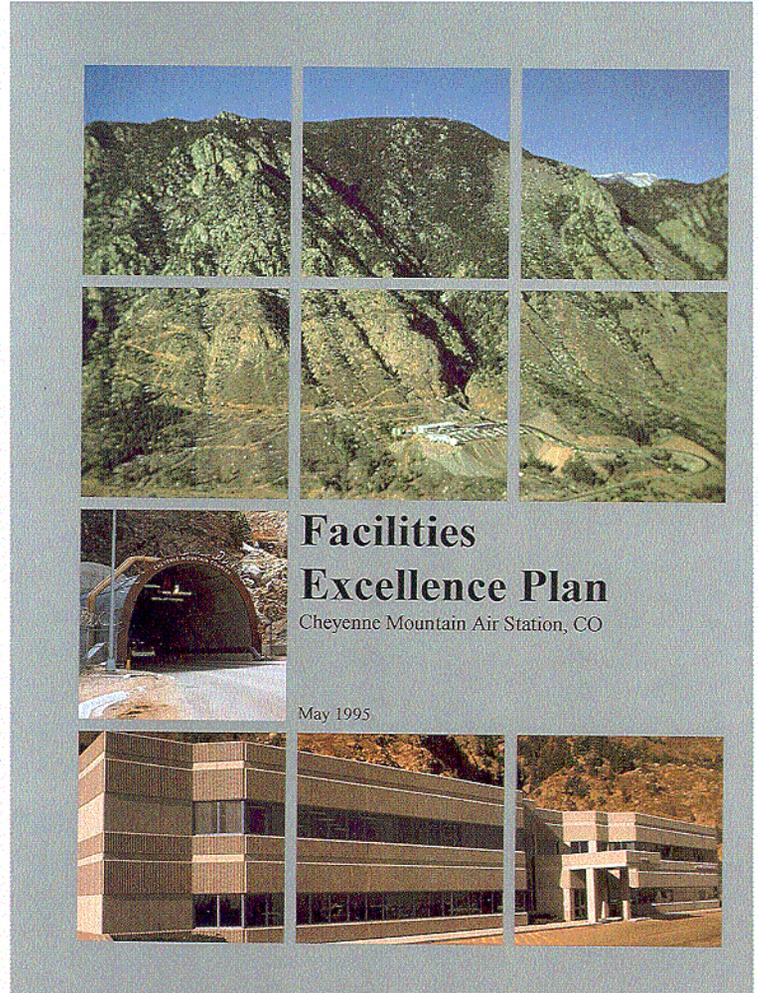
Design: Higginbotham/Briggs & Associates

Command: Air Force Space Command

Base Engineer: 721st Civil Engineer Squadron

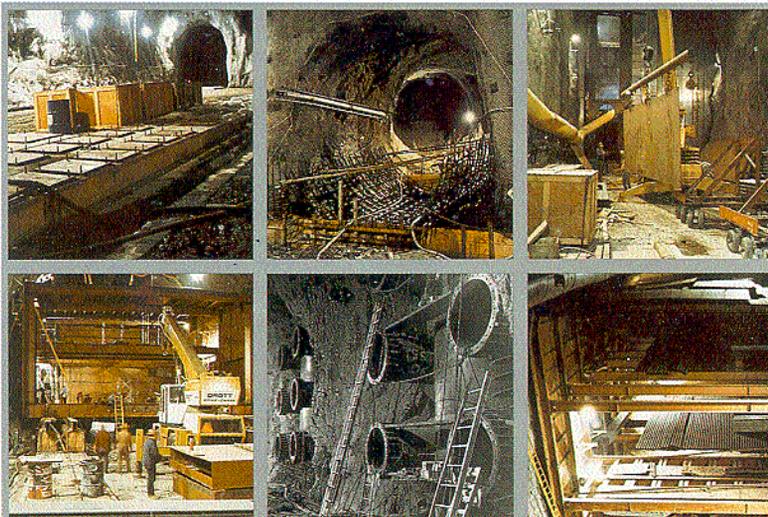
This first-ever Facilities Excellence Plan for Cheyenne Mountain Air Station presents interior, exterior, and landscape design guidance to provide attractive, coordinated, pleasant work environments that foster worker pride and ownership.

This plan was specifically designed to complement the Air Force Space Command Facilities Excellence Guide by refining general Command guidance and tailoring it to this installation and its unique, largely underground environment.



Jurors' Comments

"A good product to help users understand the design and modification of the natural and built environment."



MERIT AWARD

Planning Studies + Design Guides

US Air Force Space Command Facilities Excellence Guide

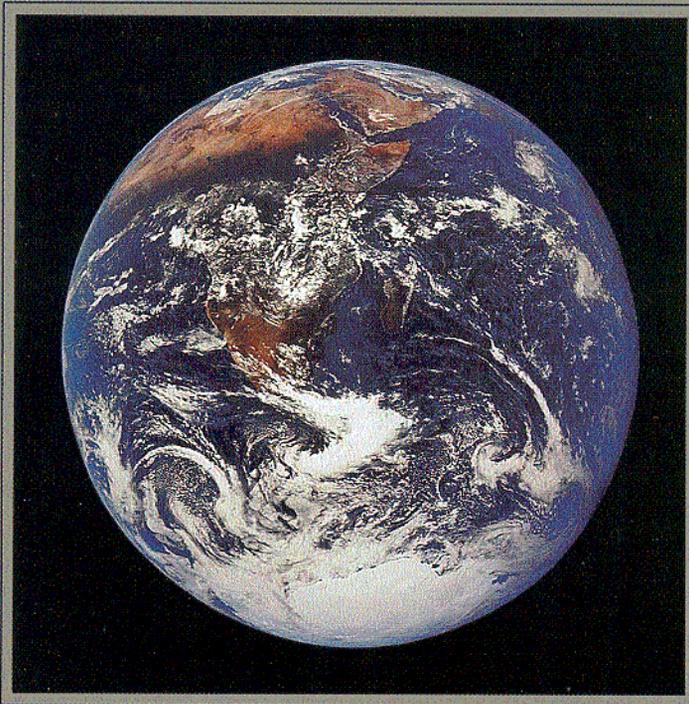
Design: CSNA Architects

Command: Air Force Space Command

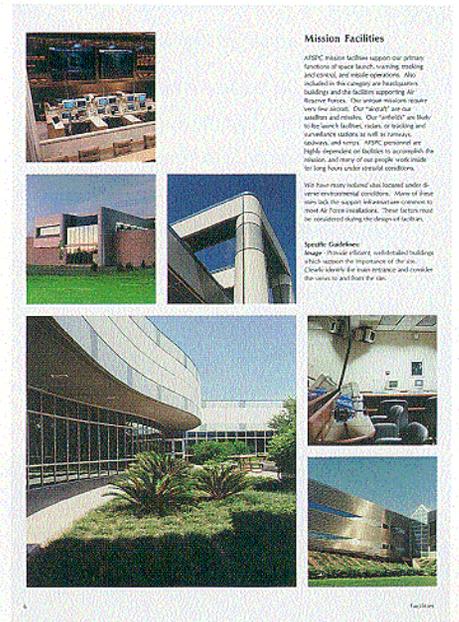
This guide addresses the uniqueness of the Air Force Space Command mission and significant presence in space. It provides a document focusing first on common facility types and then on details found in the design environment.

Installations in the command are located throughout the world, including sites in the Indian Ocean, Greenland, Hawaii and Alaska, as well as the continental United States. Facilities vary from large industrial launch complexes located on both coasts to small isolated radar sites and tracking stations found throughout the world.

Developing standards and guidelines for such a diverse group of facilities and installations presented an extremely difficult challenge. The Facilities Excellence Guide solved this challenge by providing positive photographic examples of solutions to common problems found throughout the command. The document provides written policy statements as well as guidance for achieving facilities excellence. The guide also recognizes the need for specific standards at each site using the command's policies and guidance as a framework.



Air Force Space Command Facilities Excellence Guide

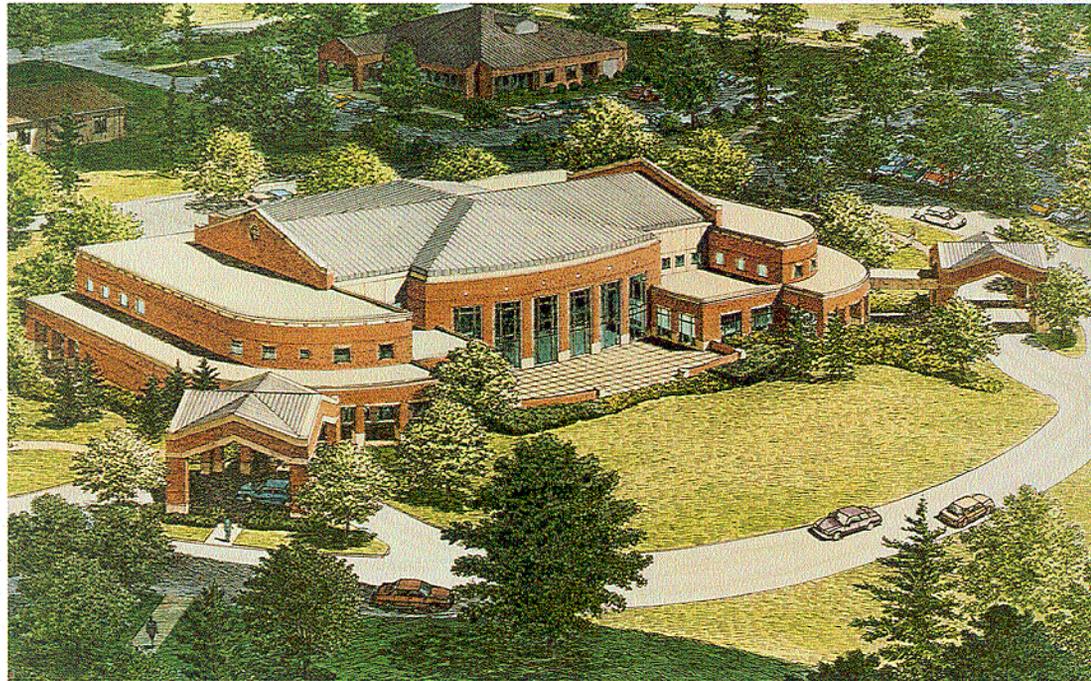


Jurors' Comments

"Well executed, graphically oriented design guide. Concise writing style enhances usability."

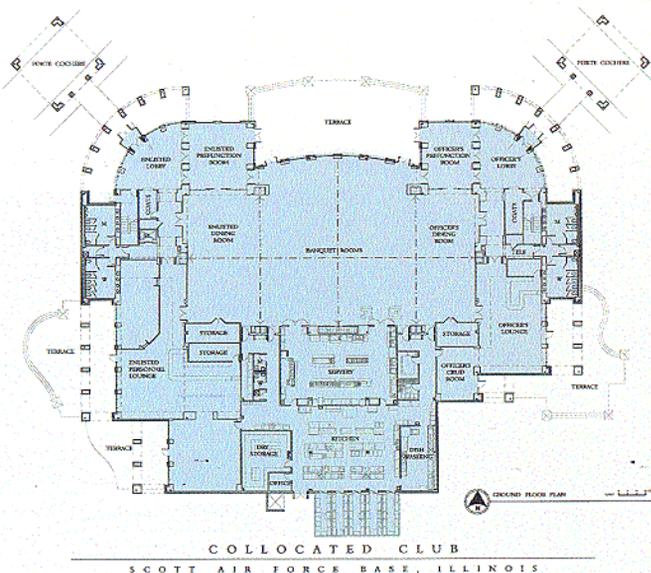
This Collocated Club design combines two existing dining/social clubs into one facility and achieves maximum flexibility by accommodating the needs of the officers and enlisted personnel at Scott Air Force Base.

The building is designed in concert with the base's dominant architectural theme. It incorporates brick gabled walls and bowed walls of glass to provide a view from the dining and banquet areas to the base entry and a proposed park. The lounge terraces are screened with seat walls and landscaping to create an intimate character. A centrally located servery allows access from either dining room for breakfast and luncheon service. The design of the servery is flexible, allowing it to be reconfigured to serve as a staging area for dinner table service. Dining areas are located adjacent to the main banquet area to allow either side to expand into the banquet areas as needed.



Jurors' Comments

"Resolved by providing central icon to identify building while having two equal entrances. Good use of materials, updates context of base."



Collocated Club, Scott Air Force Base, Illinois

Design: KZF, Incorporated

Command: Air Mobility Command

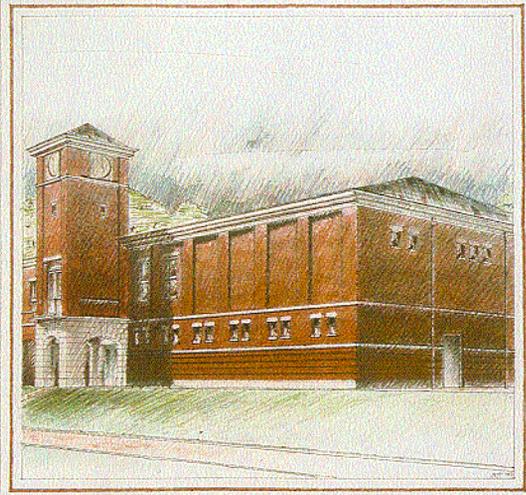
Design Agent: Corps of Engineers, Louisville District

Base Engineer: 375th Civil Engineer Squadron

Customer: 375th Services Squadron

MERIT AWARD

Concept Design



Honor Guard Operations Facility and Site Plan
Bolling Air Force Base, District of Columbia
Design: 11th Civil Engineer Squadron
Command: 11th Wing
Customer: United States Air Force Honor Guard

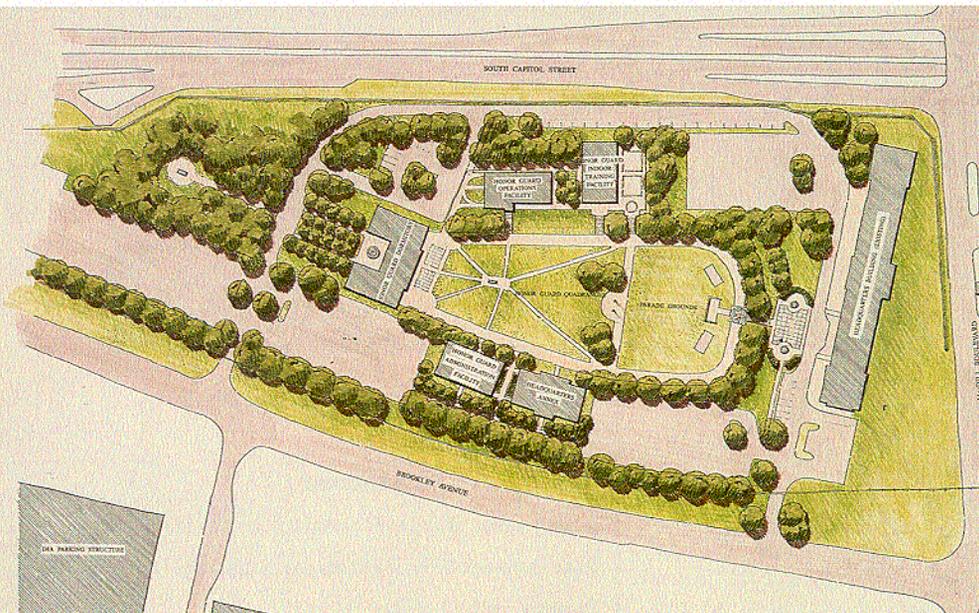
The United States Air Force Honor Guard is comprised of some of our nation's top young men and women. Their existing headquarters facilities at Bolling Air Force Base are inadequate, and this concept design sets the framework for upgrading their facilities into a unified Headquarters District. Organized around a central quadrangle, this campus of five new structures forms a cohesive living and working environment for Honor Guard activities. The arrangement of buildings incorporates a pedestrian oriented circulation system establishing formal and informal relationships between structures and open areas. Access is provided to the quadrangle, parade grounds, and adjacent buildings.

The first of five new buildings to be constructed is the Operations Facility. This facility houses the administrative offices, changing and locker rooms, which currently coexist in an outdated and undersized dormitory. This new facility will separate the working areas from the residential areas. All of the proposed structures embrace the historic context of Bolling Air Force Base by use of symbolism, materials, and scale. Symbolism is exemplified by the tower, which stands as the organizational and symbolic center of the complex while embracing the urban design tradition of Washington, DC. The project uses high quality permanent materials with a vocabulary and style derived from the original historic structures existing on the base. The two story scheme of the Operations Facility

is designed to fit within the scale of the future complex and provide edge definition for the quadrangle, which is the central focus of the District. The master plan and building design concepts have been approved by the Commission on Fine Arts and the National Capitol Planning Commission.

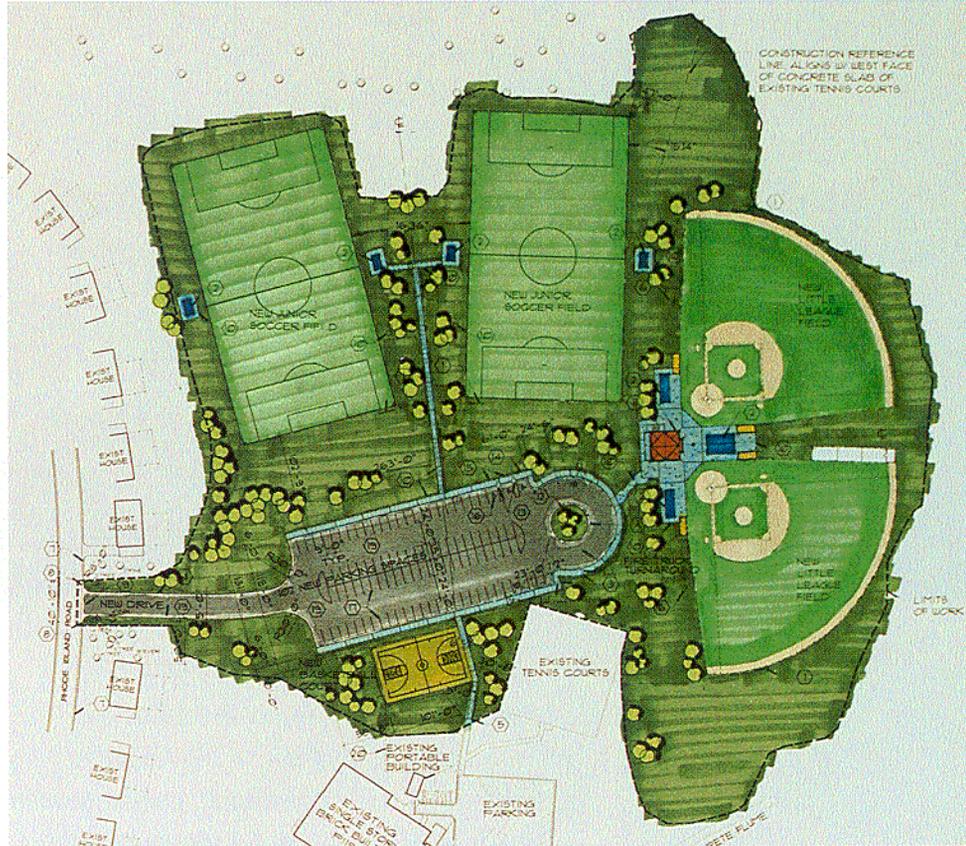
Jurors' Comments

"Simple quality of plan that created an interesting space. Excellent attention to architectural compatibility. Highly responsive to surroundings and user requirements. Skillful resolution of late 19th century architecture."



This concession building supports two little league baseball fields, two junior league soccer fields, and one basketball court.

The facility compliments the existing Youth Center and surrounding military family housing units. The floor plan provides maximum flexibility by allowing for future kitchen equipment requirements. The building orientation and roof design allow the press box and concession service counter to be in the shade during summer months and benefit from prevailing winds. Building materials were selected for their maintainability, durability, and security.



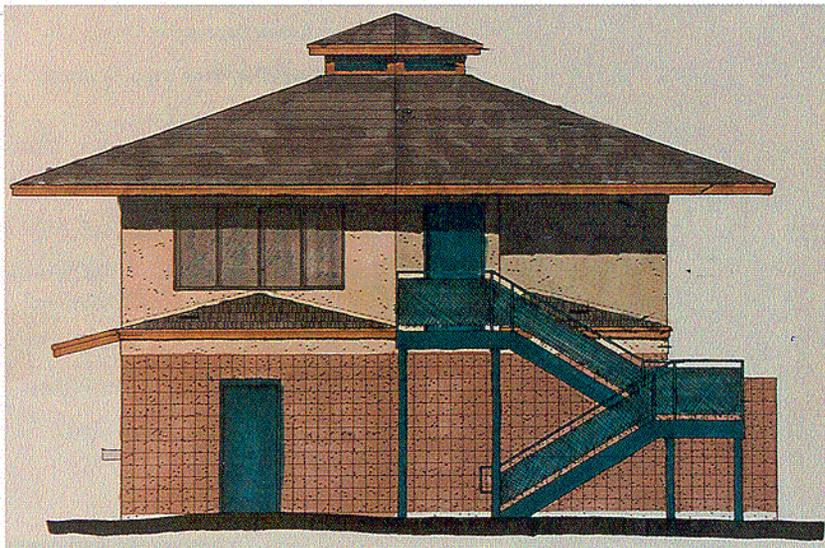
Youth Center Ballfield Complex, Dyess Air Force Base, Texas

Design: Tittle Luther Partnership

Command: Air Combat Command

Base Engineer: 7th Civil Engineer Squadron

Customer: 7th Services Squadron



Jurors' Comments

"Great integration of snack bar and press box. Relates well to site requirements. Outstanding example of good design principles applied to usually mundane facility."

MERIT AWARD

Interior Design

The interior renovation provides a new kitchen, updates outmoded restrooms, and provides needed meeting/dining room areas to support the religious activities of the chapel. The design creates a positive impact on chapel staff as well as visitors.

The softly patterned and textured carpet, a three-color paint scheme, a chair rail, crown molding, and the coordinating base in the dining/meeting room were selected to reflect a sensitivity and respect of the historic nature of the building. The ceiling has decorative moldings and is embossed with a rosette pattern. Restrooms are finished with ceramic mosaic tiles in white, seafoam, and black accents. A kitchen was added with all modern appliances and designed with an expansive serving counter that opens into the dining area, facilitating buffet style gatherings.



Jurors' Comments

"Good use of existing space, very efficient. Sensitive to historic details. Aesthetics promote use and increase significance of space."



Chapel Annex Renovation

Los Angeles Air Force Base, California

Design: Pacific General, Inc.,
Architectural/Engineering Services

Command: Air Force Materiel Command

Base Engineer: 61st Air Base Group/CE

Customer: Base Chaplain's Office (61 ABG/HC)

The intent of this design is to create a rustic feeling through a progression of experiences rather than a literal image. Contrast between the natural and built environment also enhances the progression. The rotunda and fireplace set a rustic tone with natural materials. Stone near the base, log support columns and heavy timbers come into play as the space rises to the clerestory windows above. The servery contrasts the rotunda through the palette of food service equipment, quarry tile and stainless steel. These areas are further contrasted through separate building geometries, yet the spaces blend harmoniously through consistent use of color and wood trim. In the harsh Alaskan environment, exterior finishes tend to mature quickly. Natural, integral-colored, durable materials are used to ensure a maintenance-free quality appearance. These exterior finishes and materials successfully complement the interior design theme.



Jurors' Comments

"The interior is warm and inviting. The use of wood and stone is appropriate for the location. The seating plan is creative, it takes advantage of two great focal points: the beauty of the outdoor setting and the warmth of the circular stone fireplace."

Iditarod Dining Facility, Elmendorf Air Force Base, Alaska

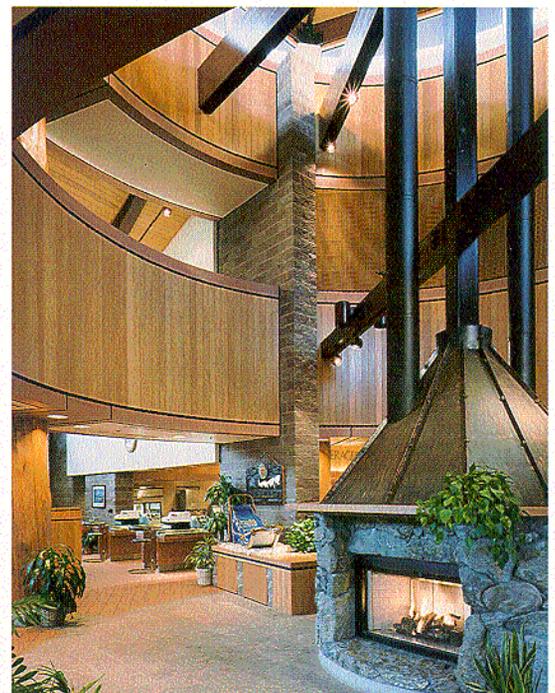
Design: Interior Space Design

Command: Pacific Air Forces

Design Agent: Alaska District US Army Corps of Engineers

Base Engineer: 3rd Civil Engineer Squadron

Customer: 3rd Services Squadron



MERIT AWARD

Facility Design

Defense Megacenter, Tinker Air Force Base, Oklahoma

Design: Haldeman Powell + Partners

Command: Air Force Materiel Command

Design Agent: Tulsa District US Army Corps of Engineers

Base Engineer: 72nd Civil Engineer Group

Customer: Defense Information Systems Agency, Western Hemisphere

This 95,000 square foot logistical support operations center or “defense megacenter” provides highly secure and intensive computer operations. The facility effectively meets the project goals by creating an attractive and progressive structure referencing both local Native American influences and high-tech computer imagery.

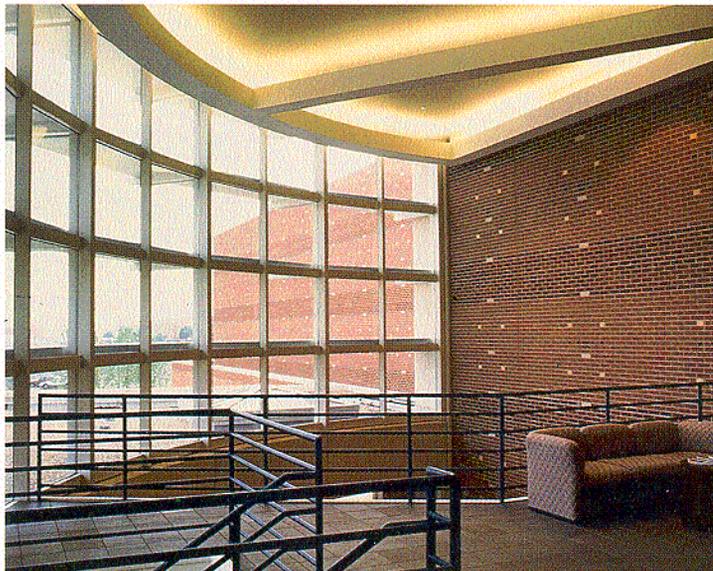
Special consideration was given to both pedestrian and vehicular access to and around the facility on its large 10-acre site. Possible future facility expansion has been integrated into the design. Exterior masonry detailing incorporates a brick pattern borrowed from large nearby buildings and computer key punch cards to tie the facility with the surroundings and foreshadow its purpose. An open courtyard allows office employees exterior access and relief from the highly confined and secure facility. Exterior cantilevered concrete louvers protect the interior spaces from excessive solar gain.

This facility has redefined the functional design and operational efficiency of defense megacenters across the Air Force and significantly affects the visual and historic impressions of Tinker Air Force Base.



Jurors' Comments

“Compatible, good contrast of colors and shapes. Progresses well to crescendo at entrance.”



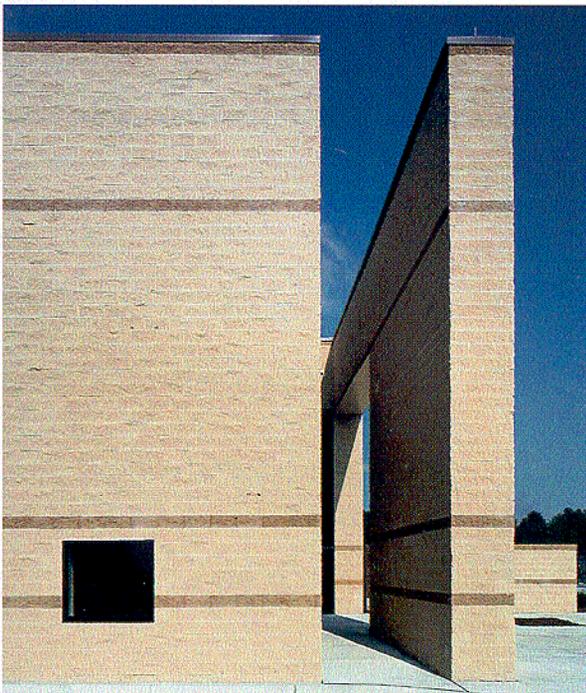
This facility serves as an aircraft parts store and provides administration and warehouse space to store war readiness spare kits for the A-10, F-16, and C-130 aircraft at Pope Air Force Base.

Overhead leading doors and a drive-through pick-up window provide easy access for pick-up and delivery. The warehouse layout is based on the user's technical requirements related to standard storage pallets and aisle clearances for forklifts. This creates a more rapid and efficient material handling process. A strong focal point at the corner of the building serves as the main entrance to the office area. The design of the building's exterior establishes an order and rhythm in the building elevations, and the selection of building materials and colors is compatible with other buildings on the installation. Cost effective low maintenance building systems are appropriate for the building type.



Jurors' Comments

"Simplicity of warehouse accentuated by articulation of entry. Sensitive and thoughtful detail that's not overdone."



Aircraft Parts Warehouse, Pope Air Force Base, North Carolina

Design: Gantt Huberman Architects

Command: Air Combat Command

Design Agent: Savannah District US Army Corps of Engineers

Base Engineer: 23rd Civil Engineer Squadron

Customer: 23rd Supply Squadron Combat Operations Support Flight

MERIT AWARD

Facility Design

This addition to the Elementary School at Lakenheath includes eight classrooms, special needs room, staff room, and toilets for kindergarten, pre-school, and pre-school handicapped children.

The facility provides full accessibility for persons with disabilities in support of several special programs within the school curriculum. An exposed steel-framed structure enclosing a glazed pitched roofed corridor is flanked on both sides by four classrooms. Building efficiency and energy conservation has been enhanced by arranging the classrooms back-to-back to limit the amount of external wall, and uses the existing gymnasium wall. A folding sound-proofed partition located between each pair of classrooms can be opened to achieve an enlarged area. All classrooms feature a "wet area" that includes a work counter and utility sink, a unisex/disabled toilet and storage space.

The covered patio, special needs area and staff room are designed to operate as a self contained games/sports control area. The classrooms incorporate quality daylighting, and the harmful effects of solar gain have been reduced by external louvers. Floor ducts allow easy access to utility systems and will easily accommodate change. The interiors are light, airy, cheerful, and well ventilated. Cross ventilation is provided through the classrooms and vented through the glazed atrium.

Elementary School Addition, RAF Lakenheath, United Kingdom

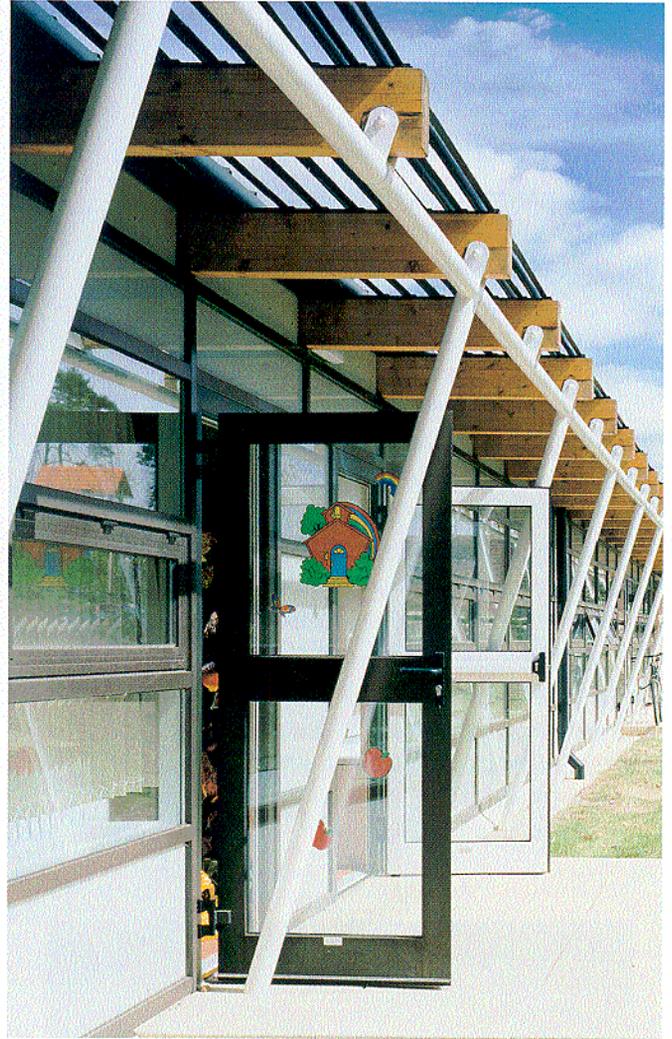
Design: Barber Casanovas Ruffles Ltd., Chartered Architects

Command: United States Air Forces Europe

Design Agent: Defense Works Services - United States Forces

Base Engineer: 48th Civil Engineer Squadron

Customer: Department of Defense Dependent Schools - Facilities Branch



Jurors' Comments

"Good scale, excellent natural lighting. Relates well to children. Logical fenestration."



MERIT AWARD

Family Housing

The purpose of this project was to provide “whole house” renovation of 33 existing housing units. The buildings that comprise Phase V are nestled among a neighborhood of existing housing structures which range in condition from renovated to unimproved. The major challenge was to produce a design that fits within the context of the existing community, while establishing a precedent for architectural style. An additional challenge was to reconfigure the existing apartments into a coherent complex of individual townhouses.

A diversity of floor plans are offered to meet the rank and bedroom requirements of the occupants. Modern living space has been created with new durable materials, finishes, fixtures, and colors. Creative and inspired adaptive reuse of existing buildings and attractive new walkways, entrance stoops, patios, and exterior storage sheds help to create a cohesive environment. Existing mature trees are sensitively combined with new landscape materials to provide an important connection between the streetscape and the surrounding environment.

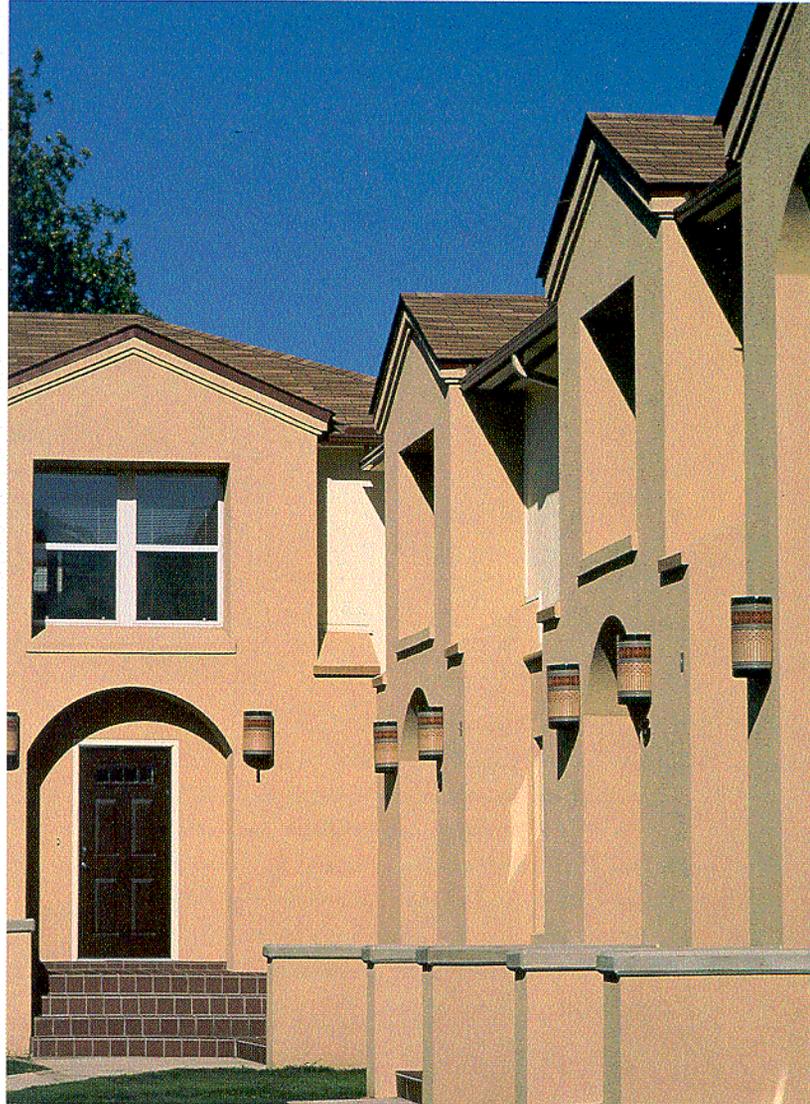
Billy Mitchell Village, Phase V, Kelly Air Force Base, Texas

Design: Baker and Associates

Command: Air Force Materiel Command

Base Engineer: 76th Civil Engineer Group

Customer: 76th Civil Engineer Group Housing Flight



Jurors' Comments

“Responds to and reinforces regional context. Dramatic improvement over existing design. Excellent recycling effort.”



Before

MERIT AWARD

Family Housing

Well-designed homes and neighborhoods are a major incentive in retaining qualified men and women in the Air Force. The base housing at Vandenberg AFB is rapidly becoming obsolete and requires continual maintenance. This project replaces deteriorated houses, built more than 40 years ago, with distinctive homes that accommodate the lifestyles of today's military families.

A mixture of one- and two-story homes provides choices for families and neighborhood diversity. Cathedral ceilings and variations in ceiling heights create dynamic interior spaces. Standardized window sizes and kitchen and bathroom modules provide economy in construction and maintenance. A standard palette of materials offers a variety in interior and exterior colors, finishes and textures. High-energy efficiency includes R-19 exterior wall insulation, R-30 roof insulation, and four-setting thermostats. Overhead utility lines were placed underground to eliminate visual clutter and provide more reliable service. The landscape design focuses on drought-tolerant plants.



Replace Family Housing, Phase I, Vandenberg Air Force Base, California

Concept Design: Sverdrup Facilities, Inc.

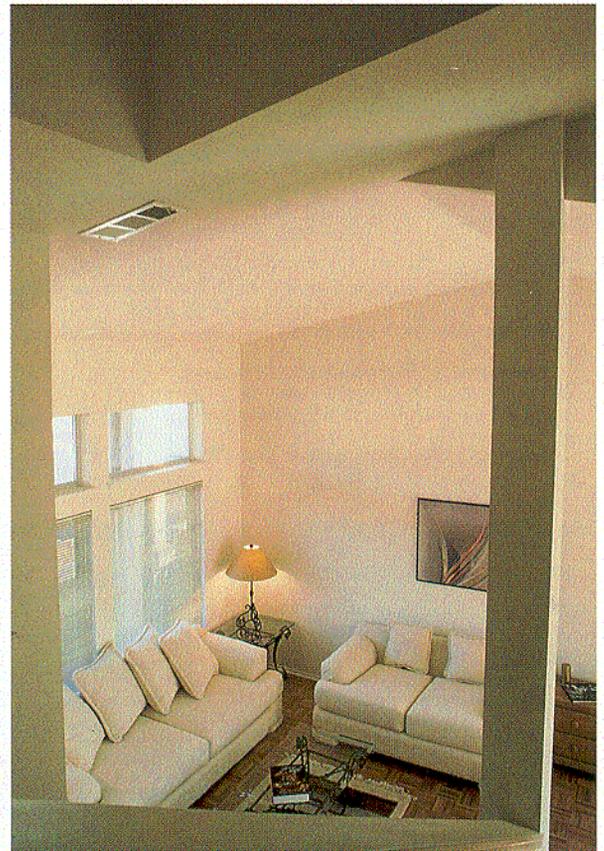
Design/Build Contractor: Harper Nielson Construction/Edward J. Cass & Associates, Architects

Command: Air Force Space Command

Design Agent: Air Force Center for Environmental Excellence Construction Management Directorate

Base Engineer: 30th Civil Engineer Squadron

Customer: 30th Space Wing



Jurors' Comments

"Nice design, beautiful facilities, good quality of life. Fits within the Southern California vernacular."

Jurors' Comments

"Good design information 'tool kit' which embraces modern technology."

Air Force Space Command guidelines state "Facilities Excellence is more than 'bricks and mortar' ...it is about pride." With this vision, this plan combines technology, education, and process automation to draw everyone into developing and maintaining a quality work environment.

This Facilities Excellence Plan introduces a new approach to Civil Engineer plans. It is the first on-line, paper free planning document in the Air Force. The system reduces duplication of effort since each document has only one owner and one location. It promotes ergonomic safety with surveys and educational resources at Falcon Air Force Base and research universities across the nation. The plan supports the principles of Total Quality Management through surveys, automatically updated metrics, and direct customer feedback to the service provider. Quicker turn around times for project development and product ordering have resulted by giving users interactive checklists.

Automated Facilities Excellence Plan, Falcon Air Force Base, Colorado

Design: Higginbotham/Briggs & Associates/Delta Research Corp.

Command: Air Force Space Command

Base Engineer: 50th Civil Engineer Squadron

Customer: 50th Space Wing

50th. Space Wing Facility Excellence Plan



"Facilities Excellence is more than the 'bricks and mortar' of buildings and maintaining our base facilities and infrastructure -- it's about pride." - General Joseph W. Ashy

Table of Contents

- FEP - Standards By Building
- FEP - Table Of Contents
- Work Request Directory
- Facilities Excellence Architect

The contents of this document aren't necessarily the official views of, or endorsed by the U.S. government, the Department of Defense, or the Department of the Air Force.

Return to:



Concept Design

The purpose of this design is to develop new enlisted dormitories for Edwards AFB, in conformance with the new 1+1 private room design standards.

The buildings are arranged around a green courtyard "oasis" area that features a landscaped central fountain, outdoor seating, and a barbecue area. Each module has either a first story patio area or a second story balcony offering a relaxing vista to the oasis area. The living modules provide a private sleeping area and private study area for each occupant. A small breakfast nook is provided for each two residents complete with cooktop, microwave, refrigerator, and a dishwasher. Although sharing a common bath, each occupant has a separate lavatory area for personal grooming. A "Commons" building provides recreational/community functions, such as a pool table, free weight and stationary exercise equipment, a kitchen/dining/lounge area for parties and small gatherings, and a covered patio area next to the barbecue facilities. Other service facilities such as decentralized laundry facilities, individual mail boxes, and bulk storage cubicles are provided throughout the complex.

Jurors' Comments

"Strong site plan, warm architecture Buildings have a human scale. Good residential feel."



Dormitory Complex, Edwards Air Force Base, California

Design: Enplanar, Inc.

Command: Air Force Materiel Command

Design Agent: Fort Worth District US Army Corps of Engineers

Base Engineer: 95th Civil Engineer Group

Customer: Air Force Flight Test Center

CITATION AWARDS

Interior Design

Jurors' Comments

"Impressive in that it was done in such a short period of time on a limited budget."



Base Supply/Customer Service Facility, Vance Air Force Base, Oklahoma

Design: Herth Engineering

Command: Air Education and Training Command

Base Engineer: Northrop Grumman Civil Engineering - Vance Air Force Base

Customer: Northrop Grumman Base Supply/Customer Service Unit

This project began with a requirement to transform an existing un-airconditioned warehouse space into a modern, functional, military supply distribution facility.

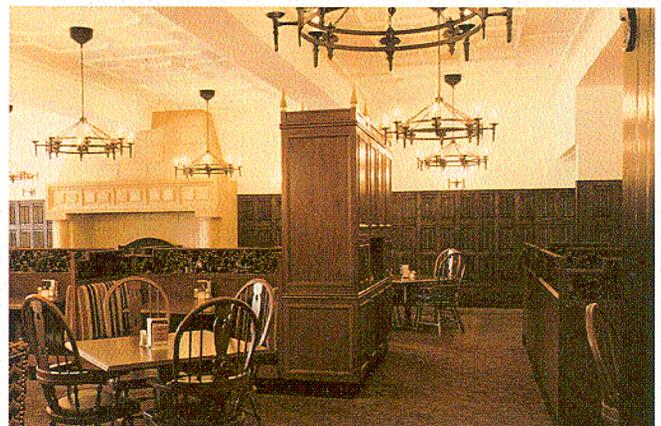
Prior to the renovation, the existing warehouse featured a bare open-structure ceiling and offering few amenities for customers. Customers were presented with poor quality lighting and ineffective equipment displays. In the renovation, Base Supply, Individual Equipment Issue, and the required administrative functions are collocated in an open, attractive office environment. Instead of having to wait in line for individual service, customers now may shop for themselves. The customer-oriented concept uses modern office systems furniture that features glass partitions to provide openness and a sense of spatial transparency. The openness from the office into the shopping area provides administrative employees increased personal responsibility to provide customer satisfaction. The goal of achieving a warm, inviting and relaxed atmosphere for the customers was accomplished by closely coordinating colors and materials. Geometric designs in floor materials and custom wall graphics effectively accentuate function use areas.

Jurors' Comments

"Ceiling and lighting give warmth and organization to the space. Millwork enhances intimacy. Shielding of existing servery is very effective."

This design is for a complete internal renovation of the Main Dining Hall with a Tudor theme.

A paneled timber screen complete with "oriel" style display cabinets was installed. New carpeting with a double border was installed between the servery and the dining rooms. This screen effectively separates the two areas. A new sprinkler system was installed to conceal a suspended plasterboard ceiling. The ceiling features plaster moldings in a paneled design. New chandelier main lighting and matching wall lighting accent the dining hall. All are controlled by dimmer switches to allow mood lighting for different occasions. A new Inglenook fireplace becomes the focal point of the dining room. The lower portions of the walls were clad in fire-resistant glass-reinforced polymer paneling manufactured to represent linen fold paneling. The walls above the paneling were replastered and decorated. The new condiment cupboards conceal a color television and microwave ovens while blending into the Tudor design theme.



Refurbishment of Dining Hall, RAF Mildenhall, United Kingdom

Design: Dixon Del Pozzo

Command: United States Air Forces Europe

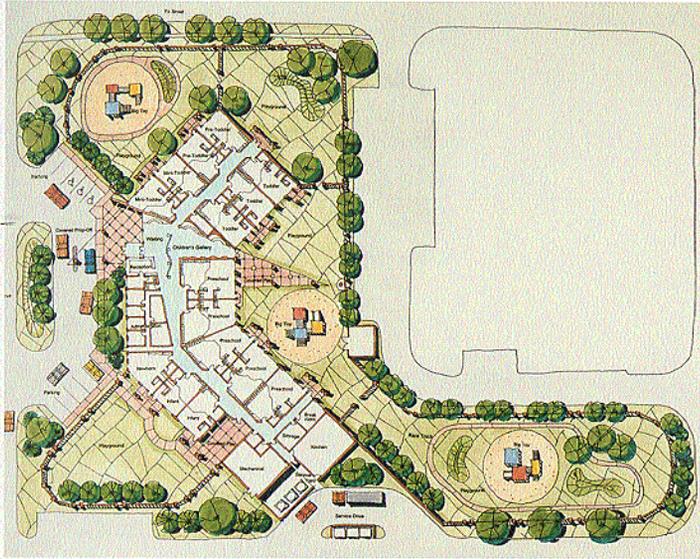
Design Agent: Defense Works Services - United States Forces

Base Engineer: 100th Civil Engineer Squadron

Customer: 100th Services Squadron

Jurors' Comments

"Effective integration and segregation of use and play areas for passive and active recreation. Good link between building floor plan and site plan. Excellent plan prototype for an important and necessary family support service."



Child Development Center, Altus Air Force Base, Oklahoma

Design: Architectural Design Group, Inc.

Command: Air Education and Training Command

Design Agent: Tulsa District US Army Corps of Engineers

Base Engineer: 97th Civil Engineer Squadron

Customer: 97th Services Squadron

Good Child Development Center design requires equal attention to interior and exterior spaces. These relationships are sensitively accomplished in this conceptual design. Outdoor areas relate directly to their interior counterparts as well as to each other. This project is an excellent example of a holistic approach to design.

Jurors' Comments

"Reflects unique nature of historic context. Well executed construction."

The goal of this design was to create a design that reflects the unique nature of the historic district, reinforce the existing streetscape, and provide a quality image that speaks of the headquarters installation.

The Scott Air Force Base Parade Ground sits at the center of the Scott Field Historic District, a collection of pre-1940s Colonial/Georgian revival style buildings located in the "Old Main Base" area of the base. Design clues such as detailing, scale, proportion, materials and colors were taken from buildings in the surrounding area. These detailing elements include arches with keystones, quoining, wrought iron fences, slate roofs, limestone trim work, etc. Low-height plants were selected to emphasize the visual point of the reviewing stand. The interior of the entry pavilion includes a beadboard ceiling and a salvaged light fixture that matches the existing street fixtures.



Reviewing Stand, Scott Air Force Base, Illinois

Concept Design: Air Mobility Command Design Center

Design: Mason & Hanger Engineering, Inc.

Command: Air Mobility Command

Design Agent: Louisville District US Army Corps of Engineers

Base Engineer: 375th Civil Engineer Squadron

Customer: 375th Airlift Wing

Jury Members DESIGN AWARDS PROGRAM

PLANNING, URBAN DESIGN, LANDSCAPE ARCHITECTURE

James W. Gray, Jr., ASLA (Chair)

Ford Powell & Carson, Inc.
San Antonio, Texas
Landscape Architect

Dixie Watkins, III, ASLA

Dixie Watkins and Associates
San Antonio, Texas
Landscape Architect

Mr John E. Cutler, FASLA

SWA Group
Houston, Texas
Landscape Architect

ARCHITECTURE AND ENGINEERING

Maj. Gen. Gary Alkire, USAF, Retired (Chair)

Dames and Moore
San Antonio, Texas
Engineer

Robert Fitzsimmons, AIA

HQ Air Force Center for Environmental Excellence
Air Force Design Group
Brooks Air Force Base, Texas
Architect

William Livingston, AIA

Gossen Livingston Associates
Wichita, KS
Architect

Boone Powell, FAIA

Ford Powell & Carson, Inc.
San Antonio, Texas
Architect

INTERIOR DESIGN

Mary Helen Pratte, IIDA (Chair)

Pratte + Associates
Austin, Texas
Interior Designer

Sandra W. Warner, IIDA

HQ Air Force Center for Environmental Excellence
Air Force Design Group
Brooks Air Force Base, Texas
Interior Designer

Ms. Susan Langford, IIDA

Bommarito Group
San Antonio, Texas
Interior Designer

PHOTOGRAPHY/ARTIST RENDERING CREDITS

pages 4-5 Aeromap, Inc.
pages 6-7 Hedrich-Blessing, Elizabeth Gill Lui, Balthazar Korab
pages 8-9 Bill Evans Presentations
pages 10-11 Quinlivan, Pierik & Krause
pages 12-13 Sally McCay
pages 14-15 + 23 Chris Arend Photography
page 16 Photo Magic
page 17 Higginbotham/Briggs & Associates
page 18 CSNA Architects
page 19 Oliveros and Friends
page 20 1st Lt Jim Tinson /Ronnie McGhee
page 21 Dwain Wadlington
page 22 61 ABG/SCVES
page 24 Haldeman, Miller, Bregman, Hamann
page 25 Gordon H. Schenck, Jr.
page 26 Timothy Soar, Photographer
page 27 Brent Bates Photographic
page 28 Anthony Carosella
page 29, top SrA James L. Satchell
page 29, bottom Emplanar, Inc.
page 30, top Northrup-Grumman Civil Engineering
page 30, bottom Dixon Dell Pozzo
page 31, top Architectural Design Group, Inc.
page 31, bottom Mason & Hanger Engineering, Inc.

The Civil Engineer:
Major General Eugene A. Lupia

Deputy Civil Engineer:
Dr. Robert D. Wolff

**This Annual Report was prepared by
the Air Force Design Group of the
Air Force Center for Environmental Excellence.**

Director, Air Force Center for Environmental Excellence:
Gary M. Erickson, PE

Director, Air Force Design Group:
Donald L. Ritenour, AIA

Graphic Design Firm:
Giles Design Inc.

United States Air Force Design Awards Program Manager and Editor:
David M. Duncan, R.A.

