



2007

USAF DESIGN AWARDS

P R O G R A M



USAF DESIGN AWARDS

For over three decades, the USAF Design Awards Program has been an effective means of recognizing outstanding contributions to the Air Force mission by design professionals around the world. This brochure details the teamwork of award winning professionals that has helped the Air Force maintain its reputation of design excellence. Throughout this document you will find the design principles that enable the Air Force to provide its Airmen with quality facilities and installations.

The winners of the 2007 United States Air Force Design Awards Program exemplify the wide variety of facilities within the built environment occupied by our Airmen. These projects have directly impacted countless Airmen through facilities commemorating the history of our air and space programs as well as allowing our forces to work in a safe, durable, technologically advanced workplace. Each facility and installation is unique, reflective of local influences. Though unique, each facility plays an integral role in the development of the global Air Force community that is committed to sustaining the environment and our resources.

As we look to building for the future, our challenge into the next decade will be to use less energy, more recycled materials, and streamlined design and construction processes to ensure the Air Force and the Department of Defense build responsibly as we work to conserve our limited resources.

As we continually strive for superior facility design, I congratulate the winners of the 2007 USAF Design Awards Program.



A handwritten signature in white ink that reads "Del Eulberg".

DEL EULBERG, Maj Gen, USAF

The Civil Engineer

DCS/Logistics, Installations & Mission Support

2007

USAF DESIGN AWARDS

P R O G R A M

This year marks the 32nd anniversary of the United States Air Force Design Awards Program that was established in 1976 to recognize and promote design excellence. Over the years, it has become 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. Much more than simply an awards competition, the winning projects establish the benchmark of design excellence that the Air Force expects for all its facilities and installations. The program itself is a proud recipient of the 2000 Federal Design Achievement Award, which recognizes exceptional design achievement from all sectors of the federal government.

Honor Awards

Planning Studies & Design Guides

Design Guide

West Virginia Air National Guard, Martinsburg

Area Development Plan

Nevada Air National Guard, Reno

Facility Design

Historic Stables Renovation

F.E. Warren Air Force Base, Wyoming

Fitness Center

Ramstein Air Base, Germany

Acquisition Management Complex, Phase IV

Wright-Patterson Air Force Base, Ohio

Citation Awards

Planning Studies & Design Guides

Community Support District

Anti-terrorism/Force Protection Plan

McConnell Air Force Base, Kansas

Web-based General Plan

Grand Forks Air Force Base, North Dakota

Concept Design

Richard I. Bong Training Center Renovation

Misawa Air Base, Japan

Landscape Architecture

Medal of Honor Park

Peterson Air Force Base, Colorado

Facility Design

Medical/Dental Clinic

Andersen Air Force Base, Guam

Aeromedical Evacuation Facility

Minneapolis-St. Paul International Airport

Air Reserve Station, Minnesota

Merit Awards

Concept Design

Community Activity Center

Kunsan Air Base, Korea

Intelligence Production Complex

Wright-Patterson Air Force Base, Ohio

Interior Design

Cyber Café

MacDill Air Force Base, Florida

Enlisted Club

MacDill Air Force Base, Florida

Landscape Architecture

Circuit Park

F.E. Warren Air Force Base, Wyoming

Bicentennial Park

Vandenberg Air Force Base, California

Facility Design

Maintenance Hangar & Shops

Tennessee Air National Guard, Nashville

Air Traffic Control Tower

Volk Field Air National Guard Base, Wisconsin

HONOR AWARD

PLANNING STUDIES & DESIGN GUIDES



Design Guide

West Virginia Air National Guard, Martinsburg

Design Organization: HSMM, Inc.

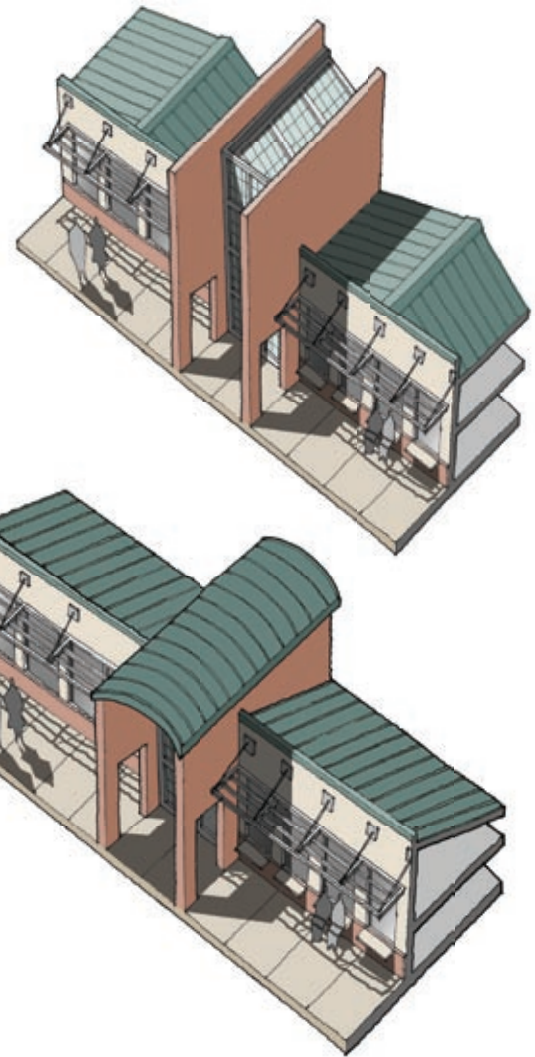
Using Command: Air National Guard

Design Agent: US Property & Fiscal Office for West Virginia

Base Engineer Organization: 167th Civil Engineer Squadron

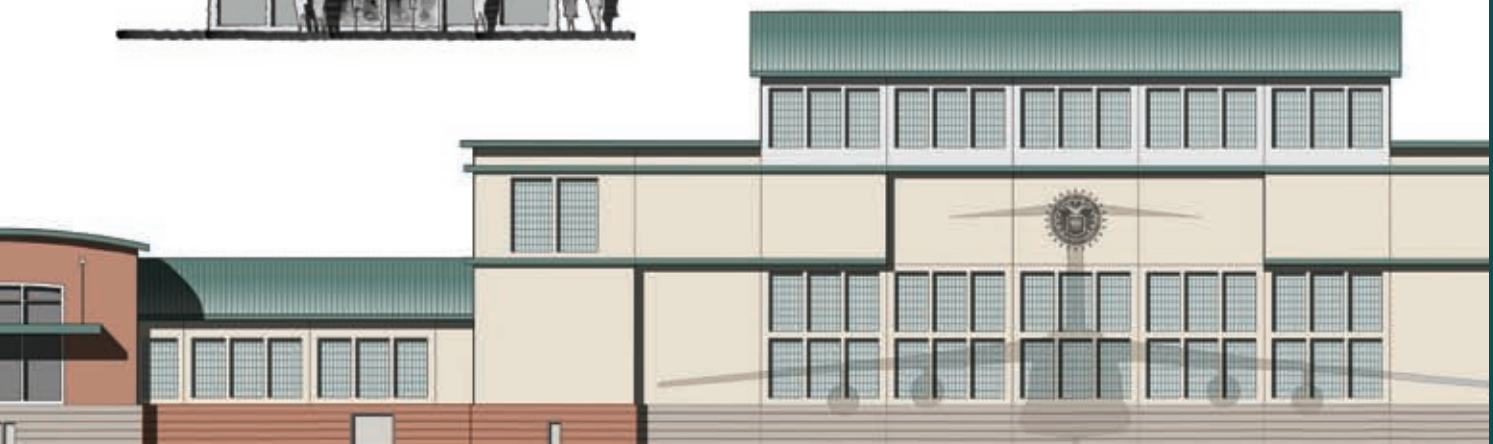
Collaboration between three design firms produced this document that incorporates existing Air National Guard Design Guide standards to create a unique illustrated design manual to steer development of future C-5 bed-down facilities at the base. This collaborative process is reflected in the guide itself, in that architects and engineers are encouraged to see possibilities rather than limitations. Independent architects and engineers working on projects simultaneously are required to define their mutual scopes of work, and provide consistent services and products. The guide addresses master planning, facility design, programming, and landscape design. It also prescribes and specifies approved construction materials. The guide establishes site and building aesthetics that can be echoed across the base by way of materials, colors, scale and other design features or details. Emphasis is placed on durable, maintenance-free materials which are manufactured and used locally to create compatibility of base buildings with those in the surrounding community. It also defines landscape design and building features necessary to implement current DoD Minimum Anti-terrorism Standard building hardening and blast protection techniques. The guide also recommends sustainable design strategies for both site development and building construction.





Jurors' Comments:

- *This guide's single greatest feature is the quality and quantity of information which makes it a welcome companion to any planner, programmer, design or maintenance engineer*
- *Ideal balance of comprehensive information and ease of use*
- *Serves as an example of how to seamlessly incorporate sustainable principles throughout the document*



HONOR AWARD

PLANNING STUDIES & DESIGN GUIDES

Area Development Plan

Nevada Air National Guard, Reno

Design Organization:

DMJM Design with CH2M Hill & H+K

Using Command:

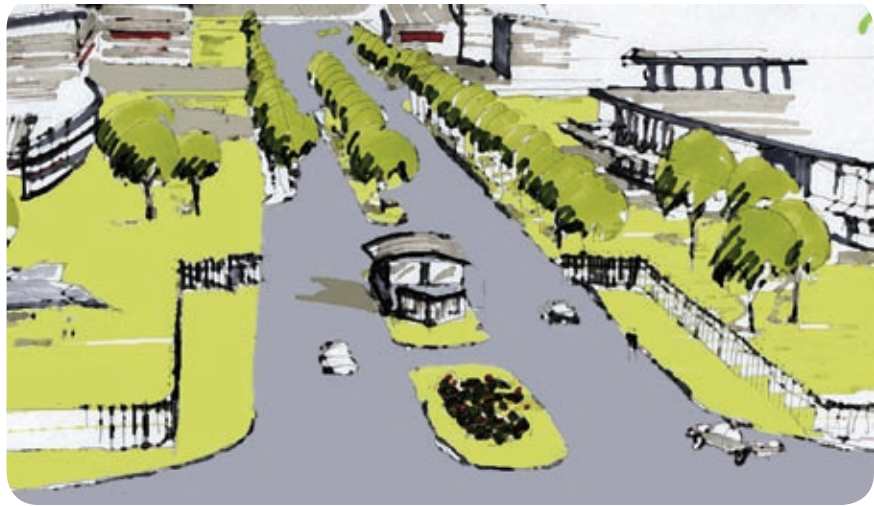
National Guard Bureau

Design Agent:

US Property & Fiscal Office for Nevada

Base Engineer Organization:

152nd Civil Engineer Squadron



Identifying and documenting existing physical conditions and facilities, this area development plan is used to analyze and determine future requirements as the base experiences changes to its mission. The plan effectively integrates Anti-terrorism/

Force Protection requirements with pedestrian and vehicular circulation, landscape and site work, while promoting orderly and comprehensive development. The document establishes a sustainable plan that brings quality elements of the outdoor environment into facilities, and encourages use of outdoor areas as an integral part of the base's function. Individual base facilities are unified by strengthening the relationships with other buildings through logical siting of facilities. Easy pedestrian access between buildings is enhanced by introducing an open space concept. Major buildings are connected through high quality pedestrian friendly open spaces. Linkages were developed through plazas, green areas or generous pedestrian walkways. An integrating identity was identified throughout all buildings and open spaces on the site. This was accomplished through the continuity of paving, signage, lighting and furniture as well as through landscape elements. Because of the plan, the base is becoming pedestrian friendly. Parking lots have been moved to the perimeter of the base, allowing for more green areas and plazas in the interior. Pedestrian walkways located where people want to walk rather than in linear elements along the road make them more user friendly. Variations between covered walkways, open walkways and landscaping elements, such as benches and planters, allow people to sit, and enables social interaction as personnel travel between buildings.



Jurors' Comments:

- *Plan is an example of how a comprehensive evaluation of multiple planning factors beyond traditional factors can produce a superior product*
- *Seamless integration of smart development principles and multi-modal transportation systems was "on target"*
- *Product represents a balance between planning analysis and program execution*



HONOR AWARD

FACILITY DESIGN

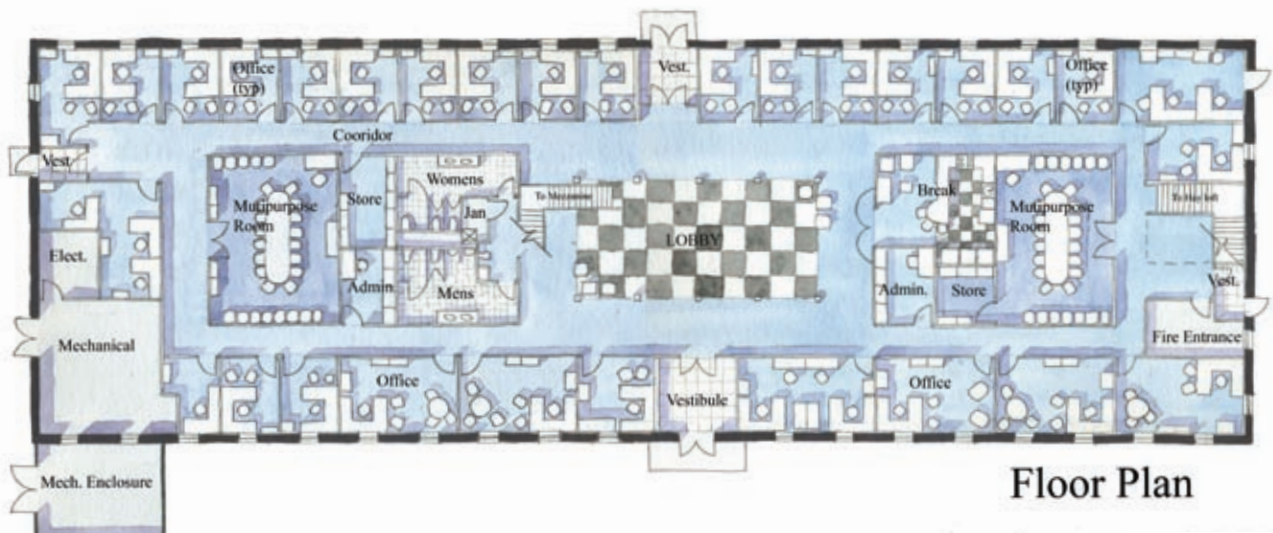
Historic Stables Renovation

F.E. Warren AFB, Wyoming

Design Organization: Ballofett & Associates

Using Command: Air Force Space Command

Base Engineer Organization: 90th Civil Engineer Squadron



Created from a historic cavalry stable located within the National Historic Landmark, this renovation project provides a collocated facility to accommodate a broad range of squadron requirements. The landmark's most iconic building was renovated while maintaining historic integrity and embracing the stately nature of the structure. Air Force personnel now have a facility that projects a contemporary and professional atmosphere. Inspired by the original building structure, the design is realized through revealing and reinforcement of strong lines, shapes, textures and light qualities inherent throughout the building. The two story light-infused lobby is characterized by refurbished historic timbers and clerestory, revealing the prominence and the natural dignity of the historic structure. The second floor hayloft was structurally enhanced to accommodate future expansion needs. Natural light is integrated into each working area as well as the central lobby through reuse of the existing window openings and clerestory. Existing post and beam construction and thoughtfully arranged workspaces facilitate expansion through the removal of non-load bearing walls. The facility is architecturally significant to a historic military base, meeting requirements of Air Force Space Command's Facilities Excellence Program and the Secretary of Interior's Standards for Treatment of Historic Properties. This project establishes the model for sustainable historic building adaptive reuse within the historic district of the installation.



Jurors' Comments:

- *Successful adaptive use of horse stable into an administrative building without losing the historic integrity of the building*
- *New construction finishes are understated to emphasize the strong lines of the historic timbers*

HONOR AWARD

FACILITY DESIGN



Fitness Center

Ramstein AB, Germany

Design Organization: Cammisar Architekt

Using Command: United States Air Forces in Europe

Design Agent: LBB Kaiserslautern

Base Engineer Organization: 435th Civil Engineer Squadron

Serving 1200 patrons each day, this fitness center provides efficient space utilization of support and administrative areas, courts and exercise areas, while incorporating enhanced force protection standards. The oblique entry façade and arched gymnasium roof successfully express the activities and energy within. The massing of the building into multiple, smaller components reduces the perceived scale. The liberal use of glass blends the outdoor and indoor environments; providing users excellent views from the top floor exercise rooms. The center's multi-level design minimizes the impact to the site, and its architecture is compatible with its surrounding facilities. Force protection elements such as reinforced planters, high curbs, reinforced walls and laminated windows were seamlessly incorporated into the design. A departure from the typical sprawling, single-floor fitness center, the designers created an innovative and unique multi-level facility, allowing the users to experience almost the entire facility from the lobby entrance. The facility incorporates sustainable construction materials and high efficiency mechanical systems. Per German law, waste construction materials were segregated and recycled for reuse.





Jurors' Comments:

- *Handsome use of massing and fenestration to accentuate the entry and highlight the program*
- *Outstanding use of interior space*
- *Interior and exterior detailing and material palette blend well*



HONOR AWARD

FACILITY DESIGN

Acquisition Management Complex, Phase IV

Wright-Patterson AFB, Ohio

Design Organization: Edge & Tinney Architects with HSSM & KZF

Using Command: Air Force Materiel Command

Design Agent: Louisville District US Army Corps of Engineers

Base Engineer Organization: 88th Civil Engineer Directorate



Drawing upon the award-winning design features of the existing Air Force Materiel Command facilities, this phase required greater mass that needed to complement existing structures and the surrounding context. While previous phases were developed along an axis following the edge of the existing ramp area, this phase “turns the corner,” creating a courtyard and using the arcade to create a formal entry. The facility’s architectural features respect the historic character of Wright Field and are compatible with previous construction in the complex. Utilizing back-to-back design-build contracts, the cost was lowered by twenty-seven percent below the original appropriation. While the footprint, volumetric development, and central core of the project are relatively defined and immovable, the design incorporates features to facilitate future mission changes with minimal disruption, time, and cost. The project uses high quality, standard materials that require minimum maintenance and attribute to the facilities attainment of a LEED® SPiRiT Sustainable Project Level of Bronze.



Jurors' Comments:

- *Outstanding addition and complementary capstone to area campus plan*
- *Handsome architectural detail which builds on historic hangars from the AF museum and existing structures*



Community Activity Center

Kunsan AB, Korea

Design Organization:

Thomas J. Davis/Jung II, Incorporated

Using Command: Pacific Air Forces

Design Agent: Far East District

US Army Corps of Engineers

Base Engineering Organization:

8th Civil Engineer Squadron

MERIT AWARD

CONCEPT DESIGN

Meeting the recreational and leisure needs of a growing military and civilian population at the base, this new center is planned from the “inside out” allowing the functional nature of the floor plan to provide a basis for defining the character of the building. “Quiet zone” functional spaces are separated from the “activity zone” spaces, forming the basis for building massing. The massing is especially crucial due to the relatively square plan dictated by the site. Natural daylighting was an element specifically implemented to enhance the design. The customer service counter is effused with natural daylighting from a garden window wall creating a relaxing outdoor atmosphere. The dining area is similarly effused with daylighting through clerestory windows. Indirect illumination of the dining area during the evening hours creates a soft relaxing atmosphere. Individual phone booths provide for quiet conversation and privacy previously unavailable. The glass fronts of the booths eliminate a “cave effect” while providing visibility for management to maintain unobtrusive but necessary supervision. Functional, vibrant and sustainable finishes were selected for their durability and functionality, with aesthetics being an equally essential factor in final material selection which includes porcelain, quarry, and ceramic tiles, carpeting, bamboo flooring, wood and plastic laminate wall paneling, water-based paints, acoustical ceiling tiles, and acoustical wood ceiling panels.



Jurors' Comments:

- Different roof components blended well together
- Use of exterior materials provide a warmth while maintaining high energy
- Spatial articulation works well as a central point for many functions
- Embrace sustainable concepts with LED signage, daylighting, rapidly renewable products

MERIT AWARD

CONCEPT DESIGN

Intelligence Production Complex

Wright-Patterson AFB, Ohio



Design Organization: Black & Veatch

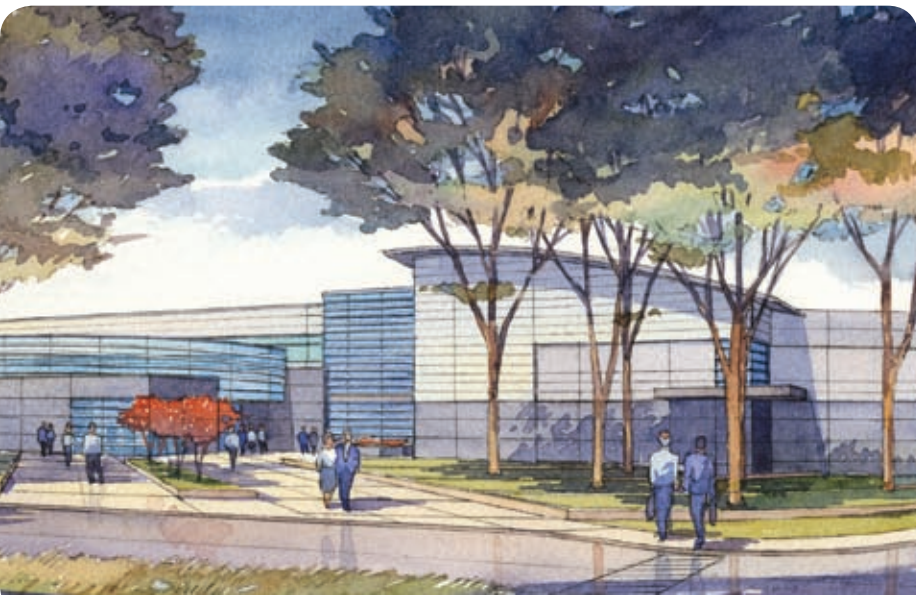
Using Command: Air Combat Command

Host Command: Air Force Materiel Command

Design Agent: Louisville District
US Army Corps of Engineers

Base Engineering Organization:
88th Civil Engineer Directorate

With historically significant activities such as the Dayton Peace Accords occurring on Wright-Patterson Air Force Base, a new image was envisioned for a National Air and Space Intelligence Center facility that could host world leaders as well as high-profile events. The project renovates an existing facility and more than triples the existing floor space in a new addition. Forecasting an expected growth spurt, the addition can accommodate two additional floors. The design also proposes specialized mechanical design for decontamination facilities, a data center, a 500-seat auditorium, and Anti-terrorism/Force Protection requirements. A new entrance will become the primary gathering spot for visitors and dignitaries using the new auditorium, pre-function areas, and associated ancillary spaces within the building. Connecting these visitor spaces to a new dining area is a corridor or “spine” that minimizes the security concerns of unauthorized individuals entering the main facility. This recommended addition will be a “bookend” in the proposed intelligence center campus concept. The design of the new facility is a bold departure from the austere appearance of the adjacent structures, however respects the contextual fabric of the base by maintaining a similar palette of materials, scale, and color hues.



Jurors' Comments:

- *Complexity of the mission still allows interaction between non-secure and secure areas*
- *Entry space nicely daylit and allows congregation for atrium dining*
- *Blending security requirements with sustainable features such as daylighting*

MERIT AWARD

INTERIOR DESIGN



Cyber Café

MacDill AFB, Florida

Design Organization: Chugach Management Services, Incorporated

Using Command: Air Mobility Command

Base Engineering Organization: 6th Civil Engineer Squadron

Designed to provide a home-away-from-home atmosphere for junior enlisted personnel, this design transforms a dormitory space into a cyber café which incorporates both indoor and outdoor spaces to meet the needs of junior airmen. This relaxed atmosphere was created through the use of warm colors, non-institutional wall designs, comfortable furniture, twin plasma screen televisions, a coffee bar and a functional patio area. The outdoor space is designed to draw people outside while the indoor space provides the users a flexible but more intimate environment. The indoor space, while relatively small and somewhat restricted by the existing footprint, was expanded by introducing glass walls to give the impression of a much larger space and to connect the natural environment with the interior spaces. Curved walls and facades lend a comfortable flow and separate the social and private spaces. Located in a dormitory to promote a feeling of ownership, the cyber café has a comfortable living room atmosphere. The coffee bar stimulates socialization by offering refreshments akin to an urban coffee shop rather than being patterned after a typical vending machine. Contrasting construction materials such as light glass with heavy brick, and warm wood with cold limestone were used throughout the facility to create home-like appeal.



Jurors' Comments:

- *Maximized a small space*
- *Good indoor-outdoor connections*
- *Home-like atmosphere*

MERIT AWARD

INTERIOR DESIGN



Enlisted Club

MacDill AFB, Florida

Design Organization:
Chugach Management Services, Inc.

Using Command:
Air Mobility Command

Base Engineering Organization:
6th Civil Engineer Squadron

Located on Tampa Bay, this new club renovation and upgrade allows customers to enjoy waterfront views while dining or enjoying a sporting event. The design combines the lounge and sports bar areas into a single high energy concept featuring a single, efficient bar. Renovated while maintaining club operations, the main lobby now provides a sophisticated entry while helping to isolate sound from the new bar and lounge area. The highly reflective finish materials combined with point source lighting create sparkle and visual excitement. The club can easily be rearranged to facilitate various events by reconfiguring furniture systems and relocating bar equipment. Low-maintenance, sustainable finish materials are used throughout, including diamond pattern metal wall coverings derived from recycled aluminum.



Jurors' Comments:

- *Clever use of materials*
- *High energy concept successful*
- *Easily maintained finishes*
- *Great color scheme*



MERIT AWARD

LANDSCAPE ARCHITECTURE

Circuit Park

F.E. Warren AFB, Wyoming

Design Organization:
90th Civil Engineer Squadron

Using Command:
Air Force Space Command

This park is a prime example of sustainable landscape development initiatives which are applicable to other installations. The park provides inviting passive and active recreation opportunities for intimate and larger gatherings. The new area enhances quality-of-life while respecting the historic context of the National Historic Landmark in which it is located. The park space is also an effective transitional link between a private historic housing area and a more public parade field. The new park design is a 21st century interpretation of an installation landscape development plan created by noted American landscape architect, S.R. DeBoer, in 1927. The design consists of four main components: xeric planting zones with native and adapted plants, thickets to moderate harsh prairie winds, a gazebo which complements the nearby historical housing, and curvilinear walkways which create pocket areas within the larger space. The xeric plant material selections and zoning coupled with the use of recycled "green building" materials established a sustainability level never before achieved at the base. Maintenance requirements and resource consumption are 75% less on this site than on comparable areas.

Jurors' Comments:

- *Outstanding blend of built and natural elements create a welcome environment*
- *Use of native and low maintenance plant species along with existing plant material are key elements of sustainable development*
- *Park features strike the right balance of functionality and beauty*



MERIT AWARD

LANDSCAPE ARCHITECTURE



Bicentennial Park

Vandenberg AFB, California

Design Organization:
The Environmental Collaborative

Using Command:
Air Force Space Command

Base Engineering Organization:
30th Civil Engineer Squadron

This redevelopment project revitalizes an existing park to respond to the needs of the adjacent chapel and housing area by providing a unifying focal point, turning a problematic and unsightly drainage swale into an attractive dry streambed. A new wooden footbridge links the previously separated park with the chapel and becomes one of the park's key features. The adjacent park now feels like an extension of the chapel. It includes a grassy amphitheater, with a curved viewing plaza at one end of the park, complemented by a trellised rotunda providing balance at the opposite end. The multifunctional rotunda acts as a center stage for outdoor functions and the bike paths and pedestrian connections through the park safely link the park with the housing area. Materials and colors were selected to match those of the existing facilities allowing the added features to feel like a continuation of the chapel and houses around the park. An existing eucalyptus grove and row of mature shade trees create a natural barrier to noise and views from the surrounding streets.

Jurors' Comments:

- *Excellent example of incorporating existing terrain features into park design, "working with nature"*
- *Design represents an ideal blend between green space and landscaped features*
- *Park's proximity to the chapel creates the ideal symbiotic relationship between two complementary functions*



MERIT AWARD

FACILITY DESIGN



Maintenance Hangar & Shops

Tennessee Air National Guard, Nashville

Design Organization: URS Corporation

Using Command: National Guard Bureau

Design Agent: US Property & Fiscal Office for Tennessee

Base Engineering Organization: 118th Civil Engineer Squadron

Reducing manpower needed for the maintenance of the unit's C-130 fleet, this hangar with its associated maintenance shops consolidates the maintenance community into a single, compact and well organized facility. The command and unit training functions are now collocated with maintenance functions to improve efficiency. The design solution provides a single maintenance area capable of housing three C-130's surrounded by the logistics and maintenance areas. Management and training activities are located at the entry with all of the engineering support systems located on the lower level to take advantage of the grade change. The construction of the hangar and shops resulted in demolition of two nose docks and two other maintenance facilities for a significant net reduction in occupied area. The single large hangar space enables servicing multiple aircraft at one time. Efficiency is enhanced by locating maintenance support areas adjacent to the hangar bay. The unique shape of the hangar and shops addition reduces the volume of the building by nearly fifty percent when compared to a rectangular box. The final design has produced a very flexible and compact shape that is both manpower and energy efficient. The facility excels in functionality as well as aesthetics. The floor drainage system and sloping panels cannot accumulate water even though aircraft are towed in along a level line. The space around and under the aircraft is quickly dry, shortly after moving the aircraft inside and the doors are closed. Compound roof slopes and stone retaining walls blend with the site to effectively reduce the overall scale of the building.



Jurors' Comments:

- *Successful strategy combining different components which minimized the volume of the hangar and produced human scale workspaces saving resources and energy costs*



MERIT AWARD

FACILITY DESIGN

Air Traffic Control Tower

Volk Field ANGB, Wisconsin

Design Organization: Mead & Hunt, Incorporated

Using Command: National Guard Bureau

Design Agent: US Property & Fiscal Office for Wisconsin

Base Engineering Organization: Volk Field Civil Engineering

This is the first air traffic control tower in the Air National Guard to incorporate training functions into an operational tower. The new structure blends into the historical context of the base and its surrounding geography. This tower represents a departure from typical designs in that space on the levels below the cab house valuable office and training areas. The bottom two floors feature a formal training room and a control tower simulator room. Though the new tower is three times the height of the former tower, the new structure provides unobstructed views of air and ground operations. Located to accommodate future expansion on the airfield apron, the new tower is well-integrated with the Volk Field master plan. The tower's unique architectural elements blend harmoniously with the base's existing theme with special attention given to choosing sustainable construction materials.

Jurors' Comments:

- *Successful use of historically under-used space and incorporating daylighting*
- *Effective blending of training and active mission in a single building*
- *Art Moderne architecture pays homage to the birth of the 'Age of Flight'*





Base Engineering Organization:
22nd Civil Engineer Squadron

The Landscape Enhancement Plan promotes cost effective, sustainable practices while supplementing existing landscape improvement plans. Sustainable features found at other public facilities throughout the greater Wichita region were also incorporated. Current and proposed facilities that do not meet current Anti-terrorism/Force Protection standoff criteria are identified, and the plan formulates an aesthetic strategy to better protect those personnel and facilities supporting national defense missions. Recommendations from the plan were prioritized, and an implementation strategy was established to resolve the most critical issues.



- Provides planners, programmers and designers with AT/FP options beyond the traditional industrial solution of bollards and Jersey barriers
- Promotes a seamless and transparent integration of AT/FP features into the landscape which will create a more aesthetically pleasing environment for the base population

CITATION AWARD

PLANNING STUDIES & DESIGN GUIDES

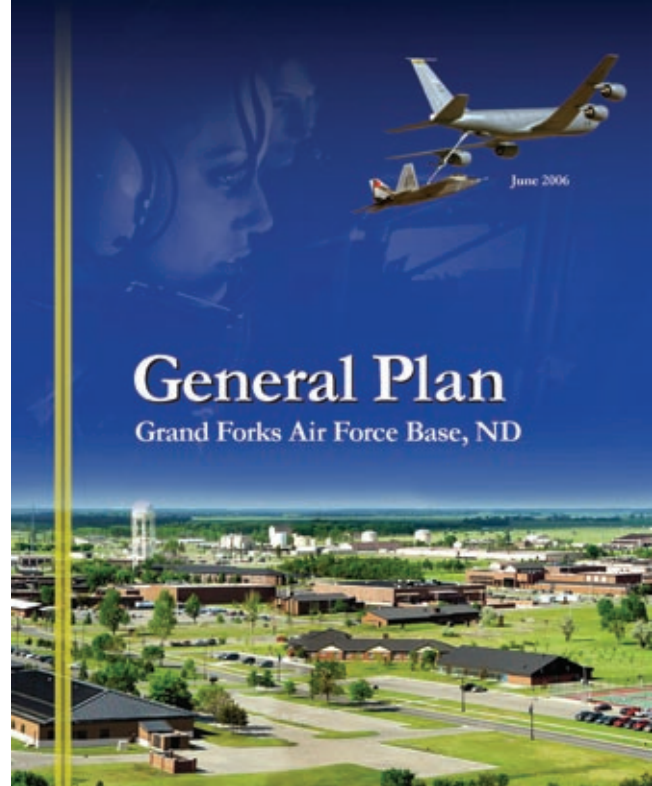
Web-based General Plan

Grand Forks AFB, North Dakota

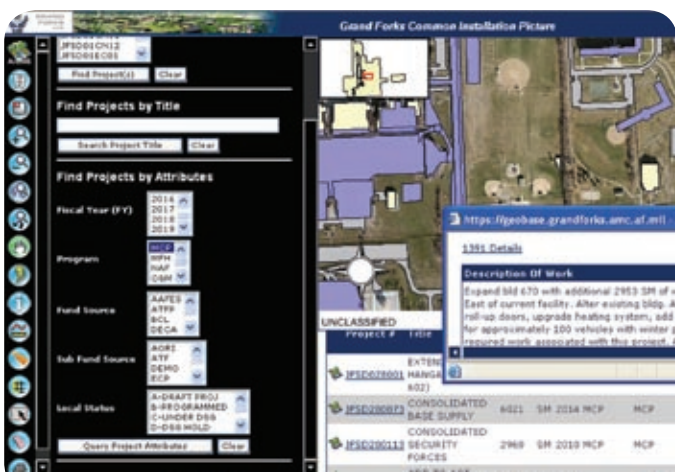
Design Organization: CH2M Hill

Using Command: Air Mobility Command

Base Engineering Organization:
319th Civil Engineer Squadron



This General Plan update provides state-of-the-art based planning and development tools to meet the base's continual evolving mission and transforms the role of the General Plan in day-to-day decision making. The update replaces the historic printed General Plans as the main resource documenting comprehensive planning and development information. The website and associated documents function as a powerful tool that is easily updated for accuracy. Its presence online allows instant access to the plan's content. The plan interfaces with information on the Common Installation Picture by using GeoBase maps and data. Additional data is available through links to the Air Force Automated Civil Engineer System — Program Management known as ACES-PM. The website is an interactive base planning tool that presents the latest information regarding Areas of Concern, Land Use Plans, Development Initiatives, Planning and Development Activities, and Area Development Plans. Additionally, live data from ACES PM, and GeoBase integrated maps is available in a matter of seconds. Daily downloads of project data are displayed on the website and seamlessly allow Capital Improvement Plan projects and base budgets to be monitored and managed. The website and documents are built with a state-of-the-art Content Management System, and top-of-the-line, user-friendly document publishing software. These tools allow updates to be made by designated base personnel as part of the daily tasks. Real time conditions are reflected immediately and quickly become available for use by base decision makers.



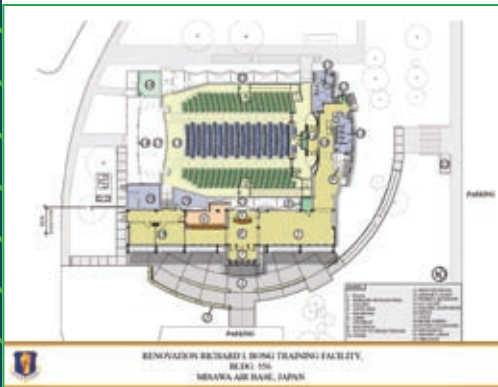
Jurors' Comments:

- Goes far beyond an "electronic" document into the realm of "web enabled" making it a cutting edge product
- Serves as the high watermark for ease of use and functionality for a web enabled General Plan
- Ability to produce companion products like the Commander's Tri-Fold is the perfect example of agile product support



CITATION AWARD

Concept Design



Richard I. Bong Training Center Renovation

Misawa AB, Japan

Design Organization: RIM Architects

Using Command: Pacific Air Forces

Design Agent: Air Force Civil Engineer Support Agency

Base Engineering Organization: 35th Civil Engineer Squadron

Built in 1947 as a theater, this project includes renovating the interior and exterior of the existing structure and adding new training, entry and foyer spaces. The new addition runs the entire length of the east façade with an exposed structural tubular truss reminiscent of aircraft hangar design. Updates to the building meet current codes and standards while creating an energy efficient, sustainable facility which meets minimum requirements for LEED® certification. Moving the main entrance from the north face to the east side and adding a new vestibule entry improves energy efficiency and reduces heat loss from the interior. The exterior building design solution is meant to reflect forms associated with flight, aerodynamics and images associated with the Air Force. The structural system of the addition provides clear spans for uninterrupted interior spaces. The exterior exposed structural truss design supports the addition by hanging the addition from the exposed structural members. This is a dynamic emphasis of the structure from the outside and relates to aircraft hangar design.

Jurors' Comments:

• Outstanding use of planning to reorient and update an aging and inefficient facility to improve gathering spaces and provide a more inviting entry area

CITATION AWARD

Landscape Architecture



Medal of Honor Park

Peterson AFB, Colorado

Design Organization:

21st Civil Engineer Squadron

Using Command: Air Force Space Command



Paying homage to a distinctive chapter of Air Force heritage, this park creates an appropriate public setting for commemorative ceremonies, incorporating sixty-one existing trees, each one in tribute to a Medal of Honor recipient. The design provides expandability for future inductees and complements the design features of the existing Historic District. The design communicates the importance of this prestigious comrade of heroes by evoking emotional involvement and communicating the Air Force's respect toward these esteemed recipients on a personal level. The gracefully curved promenade is strategically positioned to evoke emotion and serenity as individuals traverse from the parking lot to the memorial. A planned transition from the clamor of everyday living to a tranquil, contemplative environment occurs. Graceful horizontal space has been created which is sensitive to the context and horizontality of the site. Details borrow heavily from the architectural features of the adjacent Art Deco museum and the historic 1928 hangar. Distinguishing the memorial park's boundary with that of the Air Park and screening from adjacent spaces is achieved with an implied vertical plane of crabapple trees, and by the backdrop of the sixty-one memorial trees. Vibrant surfaces and plant materials visually enliven the outdoor spaces. Generous use of ramping and minimal grade changes offer accessibility and visual diversity.

Jurors' Comments:

- *Excellent balance of site elements*
- *Aesthetically pleasing appearance is a tribute to the attention to detail during execution given the scale and complexity of park design*
- *Transitional elements maintain cohesion across the park's functional area*



CITATION AWARD

Facility Design

Medical/ Dental Clinic

Andersen AFB, Guam

Design Organization: Sherlock, Smith & Adams, Incorporated

Using Command: Pacific Air Forces

Design Agent: Naval Facilities Engineering Command, Marianas

Base Engineering Organization: 36th Civil Engineer Squadron

This patient friendly clinic promotes staff and physician efficiency, provides flexibility to meet mission changes, and incorporates two portions of the original clinic facility into the new facility design. Organized around a central lobby, the Family Practice Clinic incorporates the Air Force's "Clinic of the Future" concept of patient oriented care matching that of the civilian community. Clinics and ancillary services with high patient volumes are located nearest to the entrance to minimize circulation. Travel distance for patients is minimized by placing exam rooms and treatment areas close to waiting areas. The support areas are behind the exam and treatment spaces with physician's offices located furthest from the waiting areas. A service corridor is located at the rear of each clinic to provide discrete access to service and supply areas. This hierarchy of functions continues to the site where dedicated entries provide good separation between patient and service vehicle circulation. The new clinic incorporates many environmentally responsible construction concepts and systems. Existing structures suitable for reuse were incorporated into the new clinic, minimizing demolition requirements. The clerestory windows above the central waiting lobby work in concert with a lighting control system that automatically adjusts light by dimming the light fixtures when natural daylight is available. The recovered heat from the chillers is used to provide a large percentage of domestic hot water, a substantial advantage due to the absence of natural gas on Guam to fuel water heaters. The light colored roof helps deflect solar heat gain from the sun, and there is no roof mounted equipment; thereby reducing the risk damage during typhoons.

Jurors' Comments:

- *Central core space provides a warm, friendly atmosphere*
- *Use of interior wood and color palette is complementary*
- *Reception areas blend well and do not intrude into core space*



CITATION AWARD

Facility Design



Aeromedical Evacuation Facility

Minneapolis-St. Paul International Airport
Air Reserve Station, Minnesota

Design Organization: Omaha District
US Army Corps of Engineers

Using Command: Air Force Reserve Command

Base Engineering Organization:
934th Civil Engineer Squadron

This facility is located at a northern tier base in an urban, land-locked location adjacent to an international airport. As such, many of the sustainable characteristics and other facility program requirements were related to the site conditions, winter climate, and runway noise. With a primary goal of providing flexible space for training, administration, equipment processing and storage, this facility is also designed to be LEED® “Certifiable” while successfully integrating sustainability with anti-terrorism measures. For example, the roof and storage areas are designed to shield the building from cold north wind as well as blast loads. The concrete walls not only provide blast protection, but also enhance acoustic isolation from constant aircraft noise while providing thermal time lag to moderate the interior building temperature. The building’s mechanical systems are carefully zoned to accommodate the dramatic increase in occupants that occurs on training weekends. Situated on a very small site, the design redevelops existing pavement for parking and vehicle access, and features a compact floor plan to reduce site impact. A rain garden is provided to reduce and control site storm water run-off and help maximize green space in an area that was previously very industrial in appearance.

Jurors’ Comments:

- *A tribute to the promotion of LEED® philosophy in a functional, traditional manner*
- *Early goal setting of LEED® Silver with a commitment through the construction phase resulted in a LEED® certifiable facility*
- *Includes understandable features such as daylight harvesting, HVAC flexibility and “rain gardens” that have led to the occupants embracing sustainable development*
- *Truly illustrative of achievability of Air Force sustainable development policy*



Planning, Urban Design, Landscape Architecture

Mr. Robert Rushing, AICP (Chair)

Air Force Center for Environmental Excellence
Brooks City-Base, Texas
Planner

Mr. Larry Hicks, ASLA

RVK Architects
San Antonio, Texas
Planner/Landscape Architect

Ms. Abigail Kinnison, AICP

Public Works Department
City of San Antonio, Texas
Planner

Mr. Ed Garza, AICP, ASLA

EDAW, Inc.
San Antonio, Texas
Planner

Interior Design

Ms. Mary Bartlett, IIDA (Chair)

Marmon Mok
San Antonio, Texas
Interior Designer

Ms. Brenda Magel

South Texas Veterans Health Care System
San Antonio, Texas
Interior Designer

Ms. Sandra W. Warner, IIDA

HQ Air Force Center for Environmental Excellence
Brooks City-Base, Texas
Interior Designer

Architecture and Engineering

Col Andrew Scrafford, USAF (Chair)

Office of the Air Force Civil Engineer
Washington, District of Columbia
Engineer

Mr. Rick Sinkfield, AIA

Air Force Center for Environmental Excellence
Brooks City-Base, Texas
Architect

Ms. Paula Shaw, LEED®

Air Force Center for Environmental Excellence
Brooks City-Base, Texas
Architect

Mr. Kent Lancaster

Booz Allan Hamilton
San Antonio, Texas
Engineering and Architecture Consultant

Mr. Andrew Herdeg, AIA

Lake Flato Architects
San Antonio, Texas
Architect

The Civil Engineer

Major General Delwyn Eulberg

Air Force Center for Engineering and the Environment
prepared this Annual Report.

Paul A. Parker Director

Photography/Artist Rendering Credits

PAGES 5-6	Hayes, Seay, Mattern & Mattern, Inc.
PAGES 7-8	Enno Clauss, Major Robert Nicholas
PAGES 9-10	Matthew Idler
PAGES 11-12	Peter Heinrich
PAGES 13-14	William Webb, Infinity Studio
PAGE 15	Danilo Morales, AIA & Sam Penosa
PAGE 16	Michael Cherepak
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PAGE 18	Dustin Rowley
PAGE 19	Dana Gage
PAGE 20	Ken Chen Photography, Victoria Ham-Hainsworth
PAGE 21	Aerial Innovations of Nashville, Tennessee
PAGE 22	Joe Oliva
PAGE 23	Corey Parten
PAGE 24	Heidi Nelson (and others)
PAGE 25	RIM Architects
PAGE 26	Jim Fennel
PAGE 27	Jun H. Abaya
PAGE 28	Harry Weddington/Brian Nohr

