

Air Force Installation & Mission Support Center



2024 DAF Design Awards Program

Jury Results

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2024 DAF Design Awards Program



HONOR AWARD

FACILITIES NEW CONSTRUCTION CATEGORY

KC-135 Maintenance Hangar & Shops

McGhee Tyson ANGB, Tennessee

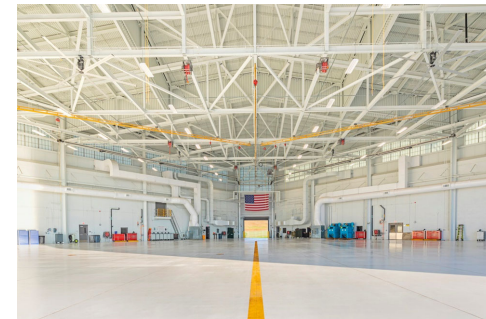
Design Organization: Burns & McDonnell Engineering Company

Design Agent: 134th Mission Support Contracting

Base Engineering Organization: 134th Civil Engineer Squadron

Project Highlights:

- *Innovative and flexible design allows multiple aircraft use w/o exceeding program square footage for smaller aircraft*
- *Exterior wall systems detailed to minimize weathering, corrosion and maintenance requirements while conveying a professional appearance*
- *Creative arrangement of 3 structurally independent structures reduce construction and fabrication costs, invites daylighting, and conveys a human scale*





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HONOR AWARD

FACILITIES NEW CONSTRUCTION CATEGORY

Force Support Squadron Annex

Whiteman AFB, Missouri

Design Organization: Finkle + Williams Architecture

Design Agent: 509th Contracting Squadron

Base Engineering Organization: 509th Civil Engineer Squadron

Project Highlights:

- *Innovative Pre-Engineered Metal Building establishes an ongoing commitment to flexibility for evolving mission needs*
- *Recessed building entrances comply with efficiency metrics and blend informal architectural features with enduring locally sourced materials*
- *Native, low-maintenance landscape is overtly sustainable, satisfies stormwater mandates, and positively interacts with nesting bird species*
- *Central classroom designed as storm hardened space to withstand 250 mph winds or an EF-5 tornado*
- *Achieved 93% waste diversion with 133 tons diverted to recycling*





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MERIT AWARD

FACILITIES NEW CONSTRUCTION CATEGORY

New KC-46A Hangar

Travis AFB, California

Design Organization: Burns & McDonnell Engineering Company

Design Agent: NAVFAC Naval Facilities Engineering Systems Command
FEC Southwest

Base Engineering Organization: 60th Civil Engineer Squadron

Project Highlights:

- *Architecturally compatible multi-bay hangars and shops include flexible design for KC-46, KC-10, and C-17 aircraft*
- *Remarkable coordination of passive and active systems in building envelope and mechanical designs achieve a projected 45.7% life-cycle energy savings*
- *Use of translucent wall panels and fabric doors provide an abundance of daylighting to interior*
- *Innovative approach reconfigures existing monitoring wells and bioreactor within design parameters and environmental requirements*
- *Vapor intrusion mitigation system used for any bioreactor contamination*



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MERIT AWARD

FACILITIES RENOVATIONS AND ADDITIONS CATEGORY

Multiple Medical Facilities Modernization

Edwards AFB, California

Design Organization: Structsure Projects, Inc.

Design Agent: US Army Corps of Engineers, Little Rock District

Base Engineering Organization: 412th Civil Engineer Squadron

Project Highlights:

- *Multiple facility additions draw inspiration from the existing architectural character with functional and expressive features*
- *Good use of building features and MEP systems as windbreaks and "cool" roofs to improve overall efficiency and functionality*
- *Excellent approach to building's orientation and use of overhangs to promote daylighting while minimizing glare and thermal heat gain*
- *Notable level of adaptability through interior configurations and finishes to blend old and new*



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CITATION AWARD

FACILITIES NEW CONSTRUCTION CATEGORY

Special Tactics Squadron Ops Facility

Joint Base Lewis-McChord, Washington

Design Organization: Burns & McDonnell Engineering Company

Design Agent: US Army Corps of Engineers, Seattle District

Base Engineering Organization: 627th Civil Engineer Squadron,
Directorate of Public Works

Project Highlights:

- *Compatible, functional architectural features and exterior wall and roof systems are consistent with IFS and respond to the local climate*
- *Superb integrations of passive thermal mass, phase change material, and building envelope design with efficient active mechanical and lighting systems which predict 34% reduction in energy use*
- *Open structural floor and roof framing, with direct access to utility services, facilitate future reconfigurations to support changes in the facility's mission*
- *Low-flow plumbing fixtures are projected to reduce water use by 43%*





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