

FIREHOUSE[®] STATION DESIGN AWARDS 2024

Firehouse is pleased to present the 11th annual Station Design Awards showcase of fire and emergency services facilities.

CAREER 1



BRW
ARCHITECTS

BRW
ARCHITECTS

CAREER 2



JOINT
FACILITIES



fgma
FGMARCHITECTS

SATELLITE



sfsarchitecture

RENOVATIONS



TRAINING FACILITIES



PRK

fgma
FGMARCHITECTS



VOLUNTEER/COMBINATION

Welcome to the 2024 Station Design Awards



RICH DZIERWA joined *Firehouse Magazine* in 2019 after four tenures with other publications. He was editor-in-chief of *Consumers Digest/ConsumersDigest.com* and of trade magazine *Cutting Tool Engineering*. He served as the consumer products reporter for *BridgeNews* and began his publishing career with an 11-year tenure at *Appliance* magazine, where he rose to managing editor after serving in other roles. Dzierwa's experience with consumer products, including furnishings, appliances, electronics and space design, has transferred to his *Firehouse* work regarding the magazine's Station Design columns and the Station Design Awards. Previous work also has contributed to his supervision of several surveys of fire service/EMS members, to produce unique reporting for *Firehouse's* audience. Dzierwa earned a bachelor's degree in English from Columbia College Chicago.

Station Design Categories

Career 1 (larger than 15,000 sq. ft.); **Career 2** (15,000 sq. ft. or smaller); **Joint Facilities** (fire and emergency response facilities that are combined with other agencies or organizations); **Renovations** (redesigned, repurposed or upgraded facilities); **Satellite** (additional stations, including headquarters and main offices); **Training Facilities** (facilities that are specific to training); and **Volunteer/Combination** (stations for a blend of career and volunteer members).

For five years, it has been my extreme honor and pleasure to join the other current and former members of *Firehouse* in service to firefighters, fire officers and EMS professionals throughout the United States and Canada. I worked with hundreds of authors over that period of time to help them to prepare for publication their columns and/or articles by which they share their in-field successes, their lessons learned, acquired strategies and tactics, and the joys and sorrows that played into the leadership that they both witnessed and applied themselves. As a result, my appreciation for the selflessness of every single member increases every day. I am a fortunate person.

Now, my good fortune has grown. I was asked to take over the reigns of the massive project that produces *Firehouse's* annual Station Design Awards. Not only is the assignment wonderfully challenging because of its breadth and the detail that's required but also because I assume the mantle of project supervisor from *Firehouse* Special Projects Director Janet Wilmoth. The Station Design Awards are Janet's brainchild, and she nurtured the Awards from their introduction to their current unparalleled status and importance. She shared her wisdom with me and walked me through each step of the process with kindness and consideration. I did my best to absorb everything that Janet related but nevertheless felt the pressure to perform up to the high standards that she delivered year after year.

I also have been aided by the seven members of this year's judging panel. Although I sat in on a previous panel's face-to-face deliberations about Station Design Award nominees, I only now fully realize their commitment to and, really, their love of their role. That includes panel stalwarts Ralph DeLuca and Joseph Leone as well as the five other panelists who have participated off and on over the years. Their commitment, love and excitement is contagious, and I can't thank them enough, although I try over and over.

Undoubtedly, Janet created and nurtured a juggernaut that continues to expand in value. I'm thrilled to carry on for her and am optimistic that's possible. Over the several hours that the seven panelists and I convened to evaluate the 64 entries across seven categories,

not only did exceptional facilities emerge as distinctive among this year's candidates, but so, too, did thoughts of how specifications for future nominations must be delineated more. In what particular ways are sleep deprivation and facility security addressed? Although information about the design and construction of station exteriors is vital, what more can be explained about their interiors, their innovative approaches to blocking contaminants from reaching the living quarters sections of the firehouses? How has the increasing requirement for the inclusion of storm shelters brought about new thinking in terms of location within premises? What has concern and commitment to member mental health produced that wasn't on departments' and architects' radar as recently as a year or two ago? How has the conceptualization of facilities that house a fire department as well as a police department and other civic operations evolved, to provide smart interaction/interoperability but also superior standalone performance? What distinguishes today's satellite stations from the design and construction of those of the past?

From the first *Firehouse* Station Design Awards in 2014, our staff and judges recognized and embraced how the scrutiny that produces the awarded facilities sets the tone for future station design and for the advancement of the fire service, in general. I can say without hesitation that this obligation remains and, in fact, intensifies. We are excited to share the 16 Gold, Silver and Bronze award winners that result from our 2024 mission. There also is valuable information to glean from the 48 other stations/facilities that we profile among the Notables in each of the seven categories. However, our excitement doesn't end there. We look forward with enthusiasm to the new revelations that will emerge from our 2025 effort and beyond.

To all of the departments and architects who have and will contribute and to our readers who will pore over what's contained in the following pages and future content in the realm of station design, we thank you.

Rich Dzierwa

MEET OUR JUDGES



CHRISTOPHER CLARK is the fire chief of the Glen Ellyn, IL, Volunteer Fire Company. He previously served as the fire chief of the Streamwood, IL, Fire Department. Clark has served 40 years in the fire service. He received a bachelor's

degree in broadcast engineering from the University of Wisconsin-Platteville and a master's degree in public administration from Governors State University. Clark is a credentialed Chief Fire Officer through the Center for Public Safety Excellence and completed the Executive Fire Officer Program at the National Fire Academy. He also does consulting work on a variety of projects for fire departments and local governments. Clark oversaw the construction of a headquarters fire station and major renovations/expansions to two existing fire stations.



RALPH DELUCA is a 38-year veteran of the fire service and recently retired as the fire chief of a fire protection district in suburban Chicago. During his tenure in the fire service, he attained a Bachelor of Architecture from the University of Illinois, and he

is a licensed architect in multiple states. Additionally, DeLuca attended numerous building assessment and forensic analysis programs and completed forensic evaluations of compromised structures. He also provides instruction on technical rescue response, firefighter safety and structural collapse response at the Illinois Fire Service Institute and is a structures specialist on IL TF-1.

STEPHEN KROMKOWSKI is a vice president for DLZ, which specializes within the fire station/public safety sector. He is a graduate of the University of Notre Dame, a registered architect in 11 states and a



registered interior designer in Indiana. Kromkowski's 36 years of professional practice include a full range of public safety project experiences, from new regional fire stations and headquarters to modest renovations of firehouses. He is certified by the National Council of Architectural Registration Boards and is a Professor of The Practice at the University of Notre Dame School of Architecture.



JOSEPH LEONE has been in the fire service for more than 35 years. He started his career as a paramedic with the Chicago Fire Department. After a short time in Chicago, he became a firefighter with the Addison, IL, Fire Department. Leone rose through the ranks of the department and retired as fire chief. He currently is the deputy fire chief of operations for the Kissimmee, FL, Fire Department. Leone received his master's degree from Southern Illinois University (SIU) and is an accredited Chief Fire Officer through the Center for Public Safety Excellence. He is an educator for SIU in the Public Safety Management program. Leone also is an approved instructor for the National Fire Academy, where he teaches incident command classes for fire and EMS. He is a veteran of the U.S. Marine Corps.



ERIC F. PROS has led the design of DS Architecture's award-winning Public Safety Studio for the past 13 years. His enthusiasm for an accessible and inclusive design process is the fuel that ignites the creative culture at the firm to identify design opportunities and explore

prospects for innovative solutions in the continually evolving industry of public safety. Pros takes pride in his ability to inspire collaboration not only among stakeholders and colleagues but also beyond his office, which has led to numerous partnerships with collaborators across the country.



LYNN REDA is a studio principal in the Community Practice at Little Diversified Architectural Consulting, aka Little. With more than 25 years of experience in the design of fire rescue facilities, she has an innate familiarity with all aspects of station design, from programming to documentation to project management. A national leader in the design of public safety facilities, Reda strives to design facilities that are reflective of the unique characteristics and culture of each department with which she works. She works with stakeholders to dive deeply into how the facility can improve users' health and well-being and improve operations and be flexible and adaptable.



JERRY STREICH is a 32-year fire service veteran. He has a wide range of experience in building design, plan review, code enforcement and investigations and helps to design public safety facilities that are safe and functional for the job, with modern

features to enhance recruitment and retention and to reduce stress and sleep deprivation. At Brunton Architects and Engineers, he heads up the Public Safety Division, to ensure that customers receive the design that meets today's needs of public safety officials. He operates Capstone, which is a consulting group, to assist fire department leadership, and he is the author of the "Shift Happens" book series.

ARCHITECTS	WEBSITE	ARCHITECTS	WEBSITE
Allen & Hoshall.....	allenhoshall.com	Mull & Weithman Architects.....	mw-architects.com
App Architecture.....	app-arch.com	OPN Architects.....	opnarchitects.com
Architects Design Group.....	adgusa.org	PBK.....	pbk.com
Bignell Watkins Hasser Architects.....	bigwaha.com	Perlman Architects.....	perلمانaz.com
BKV Group.....	bkvgroup.com	Plan One/Architects.....	planone.com
BRW Architects.....	brwarch.com	Rice Fergus Miller.....	rfmarch.com
COAR Design Group.....	coargroup.com	RRM Design Group.....	rrmdesign.com
conduit architecture + design.....	conduitad.com	RYEBREAD Architects.....	ryebread.com
Context Architecture.....	contextarc.com	Saccoccio & Associates.....	sa-architects.com
Court Atkins Group.....	courtatkins.com	Schenkel Shultz.....	schenkelschultz.com
Dekker Design.....	dekkerdesign.org	Seay, Seay & Litchfield.....	sslarch.com
EAPC Architects Engineers.....	eapc.net	sfs architecture.....	sfsarch.com
Etica Group.....	eticagroup.com	Slattery Tackett Architects.....	slatterytackett.com
FGM Architects.....	fgmarchitects.com	Stewart-Cooper-Newell Architects.....	scn-architects.com
GuernseyTingle.....	guernseytingle.com	STK Architecture.....	stkinc.com
H2M architects + engineers.....	h2m.com	Sweet Sparkman Architecture & Interiors.....	sweetsparkman.com
HB&A Architecture and Planning.....	hbaa.com	TCA Architecture + Planning + Design.....	tca-inc.com
HED.....	hed.design.com	WBRC.....	wbrcae.com
Holt Architecture.....	holtarchitecture.com	Williams Architects.....	williams-architects.com
Komatsu Architecture.....	komatsu-inc.com	WJ Architects.....	wjarc.com
Martinez Architects.....	martinez-architects.com	WSKF Architects.....	wskfarch.com
MSA Design.....	msaarch.com		

CAREER 1 GOLD



Official Project Name:

Prosper Central Fire Station and Administration

Project City/State: Prosper, TX

Date Completed: May 22, 2022

Fire Chief: Stuart Blasingame

Project Area (sq. ft.): 30,360

Total Cost: \$14,499,540

Cost Per Square Foot: \$478

Architect/Firm Name: BRW Architects

Website: brwarch.com

Design Team: BRW Architects: Mark

Watford, FAIA, Architect of Record;

Fred Clifford, AIA, Project Principal;

Carol Kesler, AIA, Project Manager;

Chris Sano, AIA, Project Designer;

Civil: Hart Gaugler; Structural: JQ

Engineering; MEP/AV/IT: MEPCE;

Landscape: Howell Design Group



Prosper Central Fire Station and Administration, Prosper, TX

The new Prosper Central Fire Station and Administration building is a state-of-the-art facility that's designed to meet the needs of a growing community while reflecting the values and pride of the Prosper Fire Department. This 4½-apparatus-bay station accommodates 10 firefighters and two captains, with the fire station located on the first floor and fire administration on the second floor, offering expansive views of the surrounding community.

The building's materials, massing and custom finishes emphasize the uniqueness of the department and contribute to a strong civic identity. To address noise concerns that were observed in previous facilities, the design strategically locates the fitness room across a covered porch that doubles as an outdoor workout space. This placement ensures that no perceptible noise or vibrations are transmitted back to noise-sensitive areas, which enhances the working environment for administration and firefighting personnel.

The station features numerous innovative solutions, including piped air hose reels for tools and air-filling; a custom boot wash station assembly; and a pressure spray hose that's connected to an instantaneous hot water heater for enhanced bay and vehicle washing capabilities. The emergency operations center/training facility is equipped with a unique EMS training and demonstration room, which serves as both a functional training space and an attractive display for community events.

A standout feature of the station is its fifth apparatus bay, which houses the department's 9/11 Memorial Museum. The museum educates visitors about the events of Sept. 11, 2001, displays a recovered steel beam, and pays tribute to the 9/11 responders who gave their life to protect others.

The new Prosper Central Fire Station and Administration building underscores the town's commitment to community protection and first responder well-being. Designed with future growth in mind, this cutting-edge campus is poised to serve the rapidly expanding town of Prosper for decades to come.







Official Project Name: Overland Park Fire Department Station 41

Project City/State: Overland Park, KS

Date Completed: April 30, 2024

Fire Chief: Alan Long

Project Area (sq. ft.): 16,300

Total Cost: \$13,875,000

Cost Per Square Foot: \$851

Architect/Firm Name: sfs architecture

Website: sfsarch.com

Design Team: sfs architecture: Kwame Smith, AIA, Principal; Lindsay Tatro, AIA, Project Manager; Dirk Henke, AIA, Project Architect; Kevin Hartman, Interior Designer; Civil: SK Design Group; Structural: Bob D. Campbell & Co.; MEPFP: FSC Inc.; Landscape: Vireo; Construction Manager: McCownGordon Construction



Overland Park Fire Department Station 41, Overland Park, KS

As the flagship for the Overland Park Fire Department, the design of the new 16,300-sq.-ft. Station 41 exemplifies the department's commitment to community safety, the health and well-being of its first responders, and the application of renewable energy in public buildings. Replacing an obsolete station, the new facility was constructed with a temporary station on site to ensure uninterrupted emergency operations. The state-of-the-art, three-company fire station, which also houses the county's ambulance service, sets a responder-centric health and safety standard for the city and surrounding community.

The design manages exposure to harmful substances through careful organization, prioritizing occupational health with strict contamination-control measures. High-hazard zones, including the four-bay, drive-through apparatus bay, decontamination area, and support spaces, are designed to contain and manage the highest risks. Moderate-hazard transition zones serve as buffers, to limit transmission of and exposure to harmful carcinogens. Low-hazard zones, which contain the station's living spaces, provide a safe and comfortable environment for firefighters.

All living spaces in the firehouse are designed to promote mental health and well-being. The station features a two-story fitness facility that opens to the rear apron for indoor/outdoor conditioning programs. Communal dining and gathering spaces encourage fellowship and socialization, while privacy, reflection and rest are emphasized in the inclusive restrooms and individual sleeping quarters that have separate, direct-access shift lockers.

A first for the department, Station 41's future-focused design features a rooftop solar array that will generate 75 percent of the station's electricity. In addition, it demonstrates the city's commitment to renewable energy production.

This modern facility not only enhances emergency response capabilities but also exemplifies a holistic approach to the health and well-being of its occupants, which make it a model for future fire stations. Station 41 stands as a model of innovation and dedication, setting new standards for responder safety, community collaboration and sustainability.





Kirkland Fire Station 27, Kirkland, WA

The needs of Kirkland Fire Station 27 were determined by master planning efforts that spanned a decade, with funding that was secured by a 2020 ballot measure. The station replaces a 1970s-era facility and includes a relocation to meet current and projected emergency response demands. The city further enhanced community emergency response by adding a half apparatus bay, for a total of three-and-a-half bays). The purpose of the latter is to support a countywide medic program.

With drive-through apparatus bays and a program that accommodates eight firefighters, a two-story station design became the solution to the constrained site, which is smaller than one acre.

Station 27's operational mission was central to the space planning and massing of the facility. The apparatus bay is located to allow for a response path through a controlled intersection. Public, office and support spaces are located on the first level of the station. Stairs to the west and east are joined by a second-floor axis, which organizes the crew living areas sequenced to optimize turnout. Interior glazing visually connects living and apparatus areas while maintaining contaminate-control zones.

Station 27 provides integrated training at the rear apron and within the apparatus bay (for example, rated connection points that are incorporated into the structure for rope exercises).

The apparatus bay roof hosts a solar array, and the project will achieve LEED Silver certification.

A public plaza buffers the two-story mass from the busy arterial to the north and provides the setting for public art. Brick masonry, metal siding and high-pressure laminate panels are the primary cladding materials. Aluminum fins offer solar control while maintaining visual connections into the station's public and active areas. Illuminated at night, the west stair becomes a beacon of service and strength with the turnout path and steel bracing expressed outwardly to the community. The fin spacing tightens for more privacy at spaces for firefighter recovery, such as the quiet room.



**FIREHOUSE
STATION DESIGN
AWARDS**

CAREER 1 BRONZE



ARCHITECTURE + PLANNING + DESIGN

Official Project Name: Kirkland Fire Station 27

Project City/State: Kirkland, WA

Date Completed: May 1, 2024

Fire Chief: Joe Sanford

Project Area (sq. ft.): 16,785

Total Cost: \$15,936,500

Cost Per Square Foot: \$949

Architect/Firm Name: TCA
Architecture + Planning + Design

Website: tca-inc.com

Design Team: TCA Architecture + Planning + Design; Brian Harris, Principal-in-Charge; Forest Hooker, Project Architect; Jeremy Koh, Project Manager; Kristen Ramsey and Amanda Lo, Project Support; Structural & Civil: Coughlin Porter Lundeen; Mechanical: Sider+Byers Associates; Electrical: Case Engineering; Landscape: AHBL; Traffic: Transpo Group; Contractor: Lincoln Construction



Official Project Name: Bixby Fire Department Headquarters

Project City/State: Bixby, OK

Date Completed: April 30, 2024

Fire Chief: Joseph Sherrell

Project Area (sq. ft.): 30,000

Total Cost: \$12,635,579

Cost Per Square Foot: \$421.18

Architect/Firm Name: Bixby Fire Department

Website: bixbyok.gov/1

Design Team: Beck Design: Wes Rutledge, Design Partner: Anthony Meave, Architect



Bixby Fire Department Headquarters, Bixby, OK

The new facility is vital in incorporating essential medical services and providing faster/more localized response teams throughout the city of Bixby. The facility aims to adhere to the design style that was established by the city while continuing the rich architectural vocabulary of traditional fire stations. The result is an elegant, modern building that's rooted in tradition and ensures a safe and comfortable environment for firefighters, administrative staff and visitors.

The new facility re-envisioned and analyzed the function and dynamics of a modern-day fire station and its effect on the community. Separation of the different spaces was a strong consideration and is achieved by dividing the public elements of a fire station and the private elements of a living area. The facility is separated into three general areas: administrative/public spaces, apparatus bays and living area. The facility has a grand west-facing entry that welcomes visitors to the fire station, including administration/emergency operations center (EOC)/training). The entry's dual entry points extends the usability of the station beyond business hours by offering secure access to EOC/training facilities independent of the administrative areas. The placement of glass throughout the public areas invites visitors to see into the apparatus bays, which serve as the "spine" that connects the public side to the private firehouse side.

The living area side of the facility is accessed through a private parking lot that's tucked behind the building. It's divided into three general areas: sleeping quarters, a fitness room and a dayroom/kitchen. Acoustics, durability, flexibility and warmth are paramount to this space. A "home" feel was required and achieved by scaling down the spaces in the private areas and opening up the communal and publicly visible areas.

The use of large expanses of glass and generous overhangs creates indoor/outdoor spaces that are usable throughout the year.



Official Project Name: Brunswick Fire Department Central Station
Project City/State: Brunswick, ME
Date Completed: Sept. 1, 2023
Fire Chief: Ken Brilliant
Project Area (sq. ft.): 28,013
Total Cost: \$9,335,388
Cost Per Square Foot: \$333
Architect/Firm Name: WBRC with Mitchell Associates Architects
Website: wbrcinc.com
Design Team: WBRC: Mathew Ward, Project Architect/Project Manager; Rob Frank, Principal-in-Charge; Mitchell Associates Architects: Bob Mitchell, Fire Station Design Consultant; Civil: WBRC; Structural: Casco Bay Engineering; MEP: Hewitt & Whitney Engineers; Construction: Ledgewood Construction

Brunswick Fire Department Central Station, Brunswick, ME

More than 40 years in the making, Brunswick Fire Department's new Central Station is one of the most efficient, firefighter-friendly facilities that's located in the state of Maine. The one-story, 28,013-sq.-ft. station provides seven drive-through apparatus bays along with effective working and living spaces for Brunswick's 40-member fire and EMS team. The station was designed to maximize public safety as well as to protect firefighter health and safety through firematic programming and the use of rigorous Hot Zone/Cold Zone separation and accessible, gender-neutral spaces.



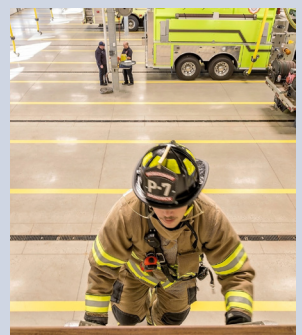
Like many legacy firehouses, Brunswick's former central station was built when horse-drawn equipment was in use and was unable to accommodate the largest modern engines. The new drive-through apparatus bay is sized and configured for the safe movement, storage, cleaning and maintenance of today's vehicles. It features a tailpipe exhaust system, dedicated decontamination areas, and strategic spaces for lockers, turnout gear, equipment and storage.

Outside, the 2.4-acre site design supports the safe entry and egress of emergency vehicles as well as provides ample, separated parking areas for staff and visitors to the station.

Fire and rescue personnel must respond to emergency situations at a moment's notice, requiring professionals who are physically prepared and well rested. To support this, the new station includes a fitness room, with bunkrooms located on the quiet side of the building. The apparatus bay's 1,793-sq.-ft. mezzanine provides rescue training opportunities to help emergency responders to keep their skills sharp. Other key personnel spaces include a well-lit kitchen with adjacent dayroom and gender-neutral bathrooms, showers, lockers and laundry facilities.

The station's user-friendly administrative wing includes offices, a large training/meeting room with kitchenette, a conference room, a radio room, and abundant spaces for storage, maintenance support, data and mechanical systems.

Brunswick's Central Station also includes a museum for historic apparatus and memorabilia, which is visible to passers-by and accessed by a secure public entrance.





Official Project Name: Cascade Charter Township Fire Station 1
Project City/State: Grand Rapids, MI
Date Completed: Oct. 23, 2023
Fire Chief: Adam Magers
Project Area (sq. ft.): 19,191
Total Cost: \$9,835,242
Cost Per Square Foot: \$512.49
Architect/Firm Name: Williams Architects
Website: williams-architects.com
Design Team: Williams Architects;
 Interiors: Williams Interiors; Civil & Landscape: Prein&Newhof; Structural: Johnson, Wilbur, Adams; MEP: WT Group; AV/Communications: Sentinel Technologies; Door Hardware: Alegion



Cascade Charter Township Fire Station 1, Grand Rapids, MI

A new, nearly 20,000-sq.-ft. fire station was designed and constructed to replace the existing Fire Station 1, which was a former factory that manufactured insulation and was modified for the fire department. The new station, which was designed with input from the community to meld classic style with modern needs, provides Cascade Township's firefighters with enhanced safety, a modern alerting system, dedicated training and storage spaces, and room for growth as the community's needs grow and change.



A study that was commissioned by the township found the former Fire Station 1's overall condition to be poor and in need of significant repairs and an expansion necessary to increase the department's safety, functionality and efficiency. The apparatus bays were too small and weren't compliant with national standards; staff living quarters were undersized; and mechanical systems weren't operating adequately and needed costly repairs. Looking at either expanding and upgrading the station or building a new one elsewhere, the township ultimately decided to rebuild and expand at the existing site.

Township firefighters played an integral role in the planning, design and construction process. New amenities include a four-bay pull-through apparatus garage that has four-fold doors for faster response times; a 48-foot-tall hose tower and high-rise training area; an exhaust capture system; decontamination areas; an emergency operations center; conference rooms in addition to a dayroom, kitchen and dining room; bunkrooms; an exercise room; and toilet/shower facilities. Locker and toilet areas are designed to be contained in single-user private rooms to accommodate both men and women firefighters. A modest outdoor patio is available off the dining and exercise room to the west.

With only one operational fire station during construction, continued coverage throughout the township was achieved by setting up operations at the Gerald R. Ford International Airport's air cargo facility and other staging areas throughout the township.





GuernseyTingle
ARCHITECTURE | INTERIORS | PLANNING



Stewart-Cooper-Newell
Architects

Chesterfield Fire Station No. 25, Chesterfield County, VA

From the very beginning of the design of the new fire and EMS station, the design team had to navigate several concerns from the surrounding community, county and other project stakeholders. There were concerns regarding the aesthetic of the station complementing the surrounding development; coordination with adjacent road projects; controlling noise for the nearby homes; and, of course, aligning the county budget with the required quality and durability of a long-term building and the fire department's functional needs.

Issues that are unique to fire station design—i.e., separation of contaminated areas and areas that have vehicle exhaust from the living quarters, providing quick access to the apparatus bay from all areas of the station, sound separation of the living quarters, and addressing gender-separation requirements with flexibility for an ever-changing workforce—were considered early in the design process. In addition, traffic control, integration of the station-alerting system and “critical facility” requirements, such as a backup generator, had to be well thought out and coordinated.

The new fire/EMS station provides nearly 16,000 sq. ft. of living, sleeping and fitness areas along with office spaces, secure EMS storage areas and three drive-through apparatus bays to house primary and reserve apparatus.

On the site, the grading and access drives presented unique challenges that were mitigated through the design. Apparatus movements were investigated thoroughly and care was taken to prevent conflicts between the public and firefighters who are responding to a call.

The building exterior was designed to complement the craftsman style of the surrounding neighborhoods, with carefully selected, quality materials that are intended to last the life of the building.





Official Project Name: Concord Township Fire Department Station No. 1

Project City/State: Concord Township, OH

Date Completed: Oct. 23, 2023

Fire Chief: Matt Sabo

Project Area (sq. ft.): 23,000

Total Cost: \$9,906,950

Cost Per Square Foot: \$430.73

Architect/Firm Name: FGM Architects

Website: fgmarchitects.com

Design Team: FGM Architects; Structural, Civil, MEP/FP & Cost Estimating; AECOM



Concord Township Fire Department Station No. 1, Concord Township, OH

Built in the 1960s, the existing Concord Fire Station No. 1 outlived its useful life. With significant deficiencies in code compliance, gender accommodations, decontamination spaces and operational requirements, the facility no longer complied with current best practices for station design. After years of internal discussions and a location study to confirm that the station should remain near its existing location, in 2016, the fire department attended a station design conference to begin exploring the possibility of replacing its existing station. The following year, the township approved a feasibility study that concluded that a renovation of the existing station would be cost-prohibitive and recommended a new facility.

When the township began to design the new facility, the focus was on providing a station that would improve response times, enhance the health and wellness of firefighters, provide on-site training and blend with the small-town community. The new, larger station also allows apparatus that previously were stored off-site in multiple locations to be housed within the bays to reduce response times.

The operations areas of the station were designed to include state-of-the-art spaces, including a decontamination/gear laundry that houses specialty equipment; a separate PPE storage room; and decon showers that aid in containing contaminants and keeping carcinogens out of the living quarters of the firehouse, to help to reduce the risk of firefighter cancer.

The station's individual bunkrooms were designed to include enhanced acoustic control, which works to provide gender neutrality while minimizing sleep deprivation.

The inclusion of daylighting in the design and the use of natural colors and materials create a connection to nature to improve the mental and behavioral health of members.

An outdoor patio that's adjacent to the fitness room allows indoor/outdoor physical training when weather permits and provides a place for the crew to relax and decompress.

A mezzanine that's in the apparatus bays connects to a tower that's located on the rear of the station. This design consideration allows personnel to train on high-rise evolutions, hose advancement, victim extrication, rope rescue and ladder evolutions.





CAREER 1 NOTABLE



Estero Fire Station No. 45, Estero, FL

Surrounded by residential development and a protected preserve, the five-acre site for the new Fire Station No. 45 was designed to establish a strong civic and community presence in the southeastern part of the county. The location, which is along a major thoroughfare in the city of Estero, allows the fire district to meet an increased demand and provide efficient response time.

A passive design approach shapes the station's siting, orienting it along a north/south axis to optimize natural ventilation from east and west winds into the apparatus bay. A wrap-around porch envelops the metal building, blending aesthetic features with elements that harmonize with the community. This design prioritizes utility, ease of maintenance and adaptability for future needs.

Designed with a focus on fostering community among the crew, the station integrates home-like amenities that offer respite between calls while providing comprehensive training to firefighters and other emergency services personnel.

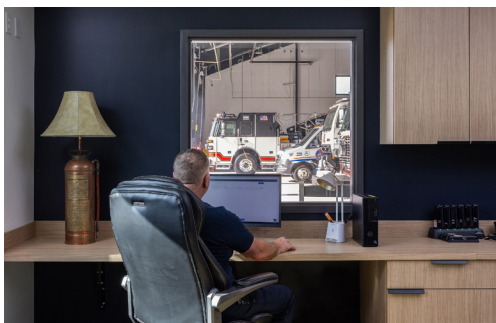
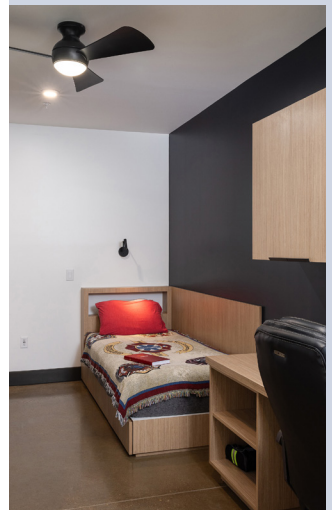
At the station's core, an open kitchen reflects a sense of place where personnel can reconnect to nature via scenic vistas. Adjacent to the kitchen and dayroom, the back lanai and porch provide ample space and seating for members to collaborate and socialize. Additional amenities include a fitness area, bunkrooms that are equipped for three rotating shifts and an outdoor fitness trail. The station has a multipurpose room for training and community events and seminars.

Functionally, the fire station is equipped with five apparatus bays for fire and EMS response, emphasizing health and safety via dedicated decontamination zones. On-site training buildings simulate real-world training scenarios to enhance the crew's training and skills. Included in the training facility is a mobile home structure;

a single-story home; a two-story, single-family home; a three-story, multi-family apartment building with burn room and roof deck; and a large, concrete apron for multiple-vehicle access.



Official Project Name: Estero Fire Station No. 45
Project City/State: Estero, FL
Date Completed: March 15, 2023
Fire Chief: Scott Vanderbrook
Project Area (sq. ft.): 19,200
Total Cost: \$7,493,697
Cost Per Square Foot: \$390.30
Architect/Firm Name: Schenkel Shultz
Website: schenkelshultz.com
Design Team: Schenkel Shultz: Nathalie White, AIA, Designer; Gary Krueger, AIA, Principal





Official Project Name: Marion Fire Station No. 1

Project City/State: Marion, IA

Date Completed: Aug. 1, 2021

Fire Chief: Tom Fagan

Project Area (sq. ft.): 21,214

Total Cost: \$8,969,208

Cost Per Square Foot: \$422.80

Architect/Firm Name: OPN Architects

Website: opnarchitects.com

Design Team: OPN Architects: David Sorg, Principal-in-Charge; Landon Burg, Project Manager; Andru Meiners, Project Architect; Tate Walker, Sustainability Director; Mindy Sorg, Senior Interior Designer; Erica Steapp, Interior Designer



Marion Fire Station No. 1, Marion, IA

This two-level, 21,214-sq.-ft. fire station that's located in a rapidly growing community reduces response time, establishes a strong and transparent civic presence, and utilizes biophilic design principles as a means of supporting firefighters' physical and mental wellness.

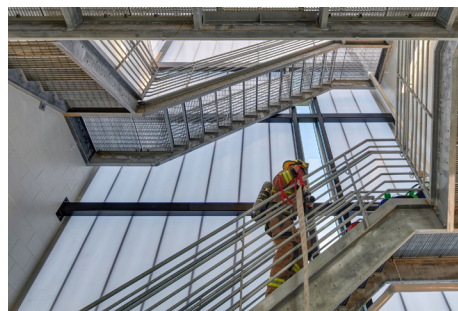
The plan and massing is anchored by a two-story apparatus bay that has full-height glass doors to maximize daylight and community connection. Shou sugi ban wood, which is charred using controlled fire, wraps the living and office spaces to add depth, texture and contrast with the smooth plane of the glass. Interior spaces are complemented by two ipe wood terraces that are sheltered by a roof and wall trellis. A green roof surrounds living and sleeping rooms.

The lobby of the facility is stretched to become the primary first-level circulation, mediating between a tree grove and a history wall. This welcoming, light-filled space allows direct views into the apparatus bay and displays the department's history, pride and tradition.

Strategic sequencing of spaces, including a decontamination area that's between the bays and the office and living areas, mitigates exposure to fire and ash carcinogens to protect firefighters' health and wellness. On the opposite side of the bays, the hose-drying tower also serves as a training area to simulate rescues. A retention pond is used to train for ice rescues.

The living areas, which are wrapped in full-height glazing with exposed wood ceilings, include a full kitchen, a large, family-style table, and a TV and gaming area to ensure that firefighters have a variety of space types to relax and recharge. Circadian rhythm-based lighting is used throughout to ensure that firefighters' wake-sleep cycle is synchronized with natural light, while escalating alarms reduce physiological and psychological stress upon waking.

The implementation of biophilic principles has a profound effect on firefighters' well-being, including stress reduction and increased awareness and cognitive ability.





Mauldin Fire Department Headquarters, Mauldin, SC

The Mauldin Fire Department outgrew its existing facility and needed a new fire station that provided the capability to strengthen fire protection in a growing section of the city, to increase efficiencies, and to improve capabilities for the safety and security of the community.

The new station is designed to meet the current needs and future growth of the city and the fire department.

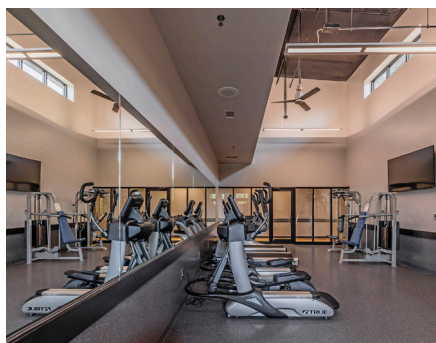
The new facility boasts three double-loaded, drive-through apparatus bays that are equipped with vehicle source capture systems as well as multiple training props.

The design of the station focused on efficiency and safety of the firefighters as they respond from and live in the station, providing seamless response pathways to the apparatus bays from the living/administrative area while ensuring proper separation of contaminated zones. Individual bunkrooms and single-occupant toilet/showers allow for flexibility and privacy. The open nature of common areas, such as the dayroom, kitchen, covered patio and fitness room, provides space for fostering teamwork and social interaction.

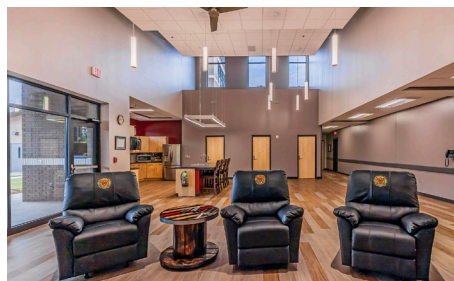
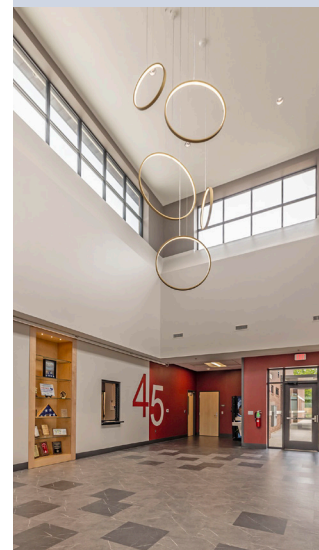
The design of the station includes a large administration wing that has multiple offices and a large training/community room (30-plus people) that can be accessed directly from the entry lobby to facilitate public events. The facility also includes a police substation to which direct access from the entry lobby is provided.

The station is located on a corner lot off of a busy road and includes signal preemption features to ensure quick response times. An on-site bypass driveway provides added flexibility for apparatus to make immediate response when needed and acts as temporary parking for visiting apparatus.

Special care was taken by the design team to incorporate landscape features to accentuate the building and to make the site more pleasant.



Official Project Name: Mauldin Fire Department Headquarters
Project City/State: Mauldin, SC
Date Completed: April 22, 2024
Fire Chief: Brian McHone
Project Area (sq. ft.): 19,777
Total Cost: \$7,600,000
Cost Per Square Foot: \$384
Architect/Firm Name: Stewart-Cooper-Newell Architects
Website: scn-architects.com
Design Team: Stewart Cooper Newell Architects





Official Project Name: McKinney Fire Station 11

Project City/State: McKinney, TX

Date Completed: Feb. 15, 2022

Fire Chief: Paul Dow

Project Area (sq. ft.): 15,950

Total Cost: \$8,181,459

Cost Per Square Foot: \$512.94

Architect/Firm Name: conduit architecture + design

Website: conduitad.com

Design Team: conduit architecture + design; Design Architect/Architect

of Record: MEP: Meza Engineering;

Structural: JQ Engineering; Civil: Cross

Engineering Consultants; Landscape:

DCBA Landscape Architecture;

Technology: AppliedTech Group



McKinney Fire Station 11, McKinney, TX

McKinney Fire Station 11 is designed to seamlessly integrate with the semi-urban environment of Craig Ranch, complementing the modern context while bridging the scale between high-rise, multifamily structures and nearby single-family residences. The design strikes a balance between traditional features of historic stations and contemporary simplistic design, with modernized masonry detailing that's capable of adapting to the evolving context of the area.

This architectural approach fosters an inclusive and welcoming presence, to project a positive image of community involvement and outreach.

The facility is designed with the overall well-being of first responders in mind, providing a safe, functional and efficient environment that mimics the comforts of home.

The design of the facility prioritizes longevity and durability, which is essential for an emergency facility, to ensure resilience against future demands, natural disasters and potential attacks.

Educational and training program requirements were integral to the design process. McKinney Fire Station 11 includes specialized multiuse spaces that are tailored for various training activities, emphasizing flexibility and adaptability. Energy-efficient envelope and glazing strategies, along with conscientious material selections, contribute to the building's sustainability.

The design team's response to these requirements involved creating a high-quality facility that serves as a long-term investment, reflecting good stewardship of community funds.

Training opportunities that are designed into the building include a three-story training tower and stairwell with rappelling hooks; a climbing wall; openings; balconies; security grilles; and a Firefighter Air Replenishment System. By incorporating advanced training and educational spaces, the design supports the continuous professional development of its occupants.

Special circumstances, such as the need for a robust and adaptable facility in a semi-urban setting, were addressed through resilient and future-proof design strategies.

Overall, Station 11 is a testament to thoughtful design that meets the complex needs of an emergency facility while fostering a positive community image and ensuring the well-being of its users.



Official Project Name: Miami Township Hamilton County Fire Station 69

Project City/State: Cleves, OH

Date Completed: Sept. 1, 2022

Fire Chief: Matt Schumann

Project Area (sq. ft.): 17,000

Total Cost: \$5,300,000

Cost Per Square Foot: \$312

Architect/Firm Name: MSA Design

Website: msaarch.com

Design Team: MSA Design; Civil & Landscape: Bayer Becker; Septic System: SGS Engineers; Structural: Advantage; MEP: KLH Engineers



Miami Township Hamilton County Fire Station 69, Cleves, OH

This facility replaces an existing station that was built and in use on the site since the 1940s. The 17,000-sq.-ft. facility includes three apparatus bays, two mezzanines, six bunkrooms, a large training room, a hose tower and training facilities. The training facilities, in and off of the apparatus bay, include a wall for rappelling, a sewer access in one of the mezzanines to allow for simulation of confined spaces, a balcony and a window in the hose tower for practicing rescues, and hoist rings in the hose tower for members to practice rappelling.





Official Project Name: Oceanside Fire Station No. 1

Project City/State: Oceanside, CA

Date Completed: Aug. 1, 2024

Fire Chief: David Parsons

Project Area (sq. ft.): 19,900

Total Cost: \$14,400,000

Cost Per Square Foot: \$724

Architect/Firm Name: STK Architecture

Website: stkinc.com

Design Team: STK Architecture, Salas O'Brien, Integrated Structural Engineers, Latitude 33, Alhambra Group



Oceanside Fire Station No. 1, Oceanside, CA

Fire Station No. 1 is located adjacent to the city of Oceanside's City Hall and was influenced by architect Irving Gill's design of the first Fire Station No. 1 for Oceanside in 1929.

The station houses five bays for emergency vehicles, complete fire department administrative services and training/meeting rooms. The second floor contains the living quarters for 14 fire personnel, with a kitchen, a dayroom and laundry facilities and provides for future expansions as the city grows.

The site amenities include an above-ground fuel tank, an emergency backup generator system, a covered parking area, an electronic rolling gate and an exterior exercise area.

The training room is designed to further the department's education and knowledge, including with the installation of full computer connections for 20 people.

The classroom also is designed for multiple training sessions with integrated technology, including touchscreen TVs. This allows for an ongoing education for the department and EMTs. Training sessions are held at the same time with the aid of an accordion partition and direct access to the training area outside of the building.

Ladder protection bars were designed into the second-story elevation about six inches below the parapet. These are to be used by members during ladder training exercises.





Official Project Name: Orlando Fire Station No. 11

Project City/State: Orlando, FL

Date Completed: June 18, 2024

Fire Chief: Charlie Salazar

Project Area (sq. ft.): 15,125

Total Cost: \$10,947,981

Cost Per Square Foot: \$724

Architect/Firm Name: Architects Design Group

Website: adgusa.org

Design Team: Architects Design Group:
Architect of Record; Design-Build Lead &
Contractor: H.J. High Construction



Orlando Fire Station No. 11, Orlando, FL

Fire Station No. 11 is a four-bay station that's designed to meet stringent survivability and functional criteria and to create civic architecture that fosters pride in the community. The station was integrated into an existing sports and recreation complex. The floor plan supports functionality and rapid response times and promotes firefighter health and safety.

Apparatus bays are separated from the living and working quarters by apparatus support areas with two airlocks that have positive pressurization to keep carcinogens out of the living quarters. A decontamination room that is equipped with an active decontamination unit and shower also serves to keep members safe from contaminants where they live in the firehouse. Sleeping quarters and active crew quarters have acoustic separation and advanced, individual signalization in each of the bunkrooms to allow for needed firefighter rest and recuperation.



The replacement station is home to 33 firefighters and four units (an engine, a tower, a rescue and a district chief) and is designed to enhance operations while providing top-rate service, functionality and rapid response times to the community that it serves. The state-of-the-art facility also further promotes firefighter health, safety and inclusiveness by including:

- Escalating emergency tones to reduce fatigue and heart-rate response.
- Individual crew bunkrooms and restrooms to accommodate and promote diversity in the workplace.

The station was designed to LEED Silver standards. It leverages two full arrays of solar panels to offset the station's carbon footprint.

The finishing touch of the facility is the 80-foot mural on the east side of the main structure, which utilized the city's 1 percent art requirement. Titled "Meanwhile at Fire Station 11..." the mural features a comic book-inspired depiction of firefighters and rescue teams springing into action to help their community.





Official Project Name: Washington Township Fire Department Station 41

Project City/State: Centerville, OH

Date Completed: Sept. 29, 2023

Fire Chief: Nick Bergman

Project Area (sq. ft.): 15,259

Total Cost: \$7,350,000

Cost Per Square Foot: \$482

Architect/Firm Name: App Architecture

Website: app-arch.com

Design Team: App Architecture: Timothy Bement, Principal-in-Charge/ Design; Curt Sparks, Project Manager/ Designer; Matt Gillmore, Design & Production; Brenda Lynn, Construction Administrator; Charlie Kent, Interior Design; MEP: Nauman & Zelinski; Structural: Jezerinac Geers; Civil: Choice One



Washington Township Fire Department Station 41, Centerville, OH

This facility is designed with firefighter/paramedic long-term health and wellness as the top priority.

A strong connection to the outdoors is achieved by the thoughtful placement of the building on the site to take advantage of a stand of mature sycamore trees that provide a welcoming environment and shade to the west side of the building and outdoor dining patio during the summer months.

The training mezzanine and elevated bailout window are placed above the living quarters near the front of the apparatus bays to achieve a two-story building mass as viewed from the main street. This balances the larger mass of the apparatus bays.

The open-plan, residential-scale dayroom, dining room and kitchen are positioned in full view of the trees, and the facility is designed to encourage positive interactions with other crew members. An LED fireplace is the focal point of the dayroom and provides warmth and a sense of home that can be enjoyed year-round with no maintenance and minimal carbon footprint. A respite room is designed with a recliner and a full-height wall mural of a serene landscape. Individuals have the ability to change the lighting levels and color of the light that's within the room.

Mixed-gender crews are provided eight individual dormitory rooms and three individual toilet/shower rooms. The dorm rooms and individual toilet/shower rooms are placed as close as possible to the front of the station. This positioning provides members with the shortest and most direct access to the front of the apparatus bays.

The public handicapped-accessible restroom doubles as an integrated ICC 500 tornado shelter.

Another important sustainability feature that's built into the design of Station 41 is the 41-kW solar array that's located on the apparatus bay roof. The system is designed in a way that allows it to produce as much as 25 percent of the building's electricity needs.





CAREER 1 NOTABLE



West Fargo Fire Station Headquarters, West Fargo, ND

The West Fargo Fire Station Headquarters, which is a state-of-the-art, 47,018-sq.-ft. facility, exemplifies functionality, community engagement and firefighter wellness. Strategically designed on a challenging site that's divided by a utility easement, it houses department administration, the fire station and community spaces.

The training tower is equipped for a diverse array of drills, including confined space certification and rappelling. It features a Siamese fire department connection and training standpipe.

The apparatus bay includes a city-supplied training sewer access for hands-on training for members.

A multipurpose room that was built into the facility serves departmental and community events, emphasizing the station's dual function as a regional training hub and community center.

The Firefighters Honor Court and historical display areas honor the legacy and dedication of past, present and future firefighters, to enhance community ties.

Public educational displays feature awards, memorabilia and a vintage fire truck. Artwork from daily fire department tools, such as an American flag that's constructed from old fire hoses, and the Firefighters Honor Court enrich the staff and community experience.

Spaces that promote healthy interactions among personnel reflect the department's commitment to firefighter welfare and mental health and well-being.

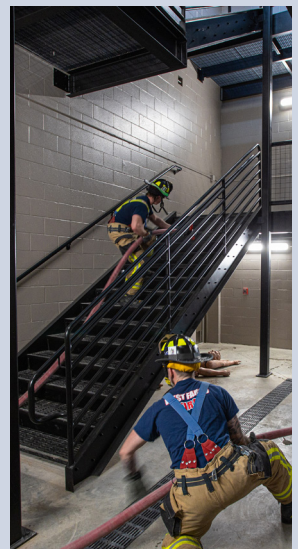
Supporting the change to full-time career firefighters, the headquarters includes a dispatch operation, training facilities for more than 100 occupants, living quarters for nine staff members, 14 private offices, open workstations and a five-bay apparatus area.

The design of the facility incorporates classic fire station aesthetics via the utilization of masonry, cast stone accents and arched apparatus bay doors.

Administration areas of the station have direct access to living areas. The philosophy behind this: Encourage interaction between firefighters and administrative staff.

The building is zoned into Hot, Warm and Cold areas to manage contamination and ensure readiness.

Through meticulous planning, the West Fargo Fire Station emerges as a contemporary symbol of safety, excellence, education and community pride. It is thoughtfully designed to support the well-being of those who serve and strengthen community connections.





Official Project Name: Y-12 National Security Complex Fire Department

Project City/State: Oak Ridge, TN

Date Completed: May 1, 2023

Fire Chief: Mari-Kaye Monday

Project Area (sq. ft.): 31,603

Total Cost: \$19,500,000

Cost Per Square Foot: \$617

Architect/Firm Name: BKV Group & H2M architects + engineers

Website: bkgvgroup.com, h2m.com

Design Team: BKV Group: Mark Manetti, Brandon Adams, Rose Rodriguez, Bill Ljungquist, Chad Kurdi, Linda Hernandez, Joel Springer; H2M architects + engineers: Dennis Ross, Eric Neiler, David Pacheco; MBI: Chris Triko; Spectra Tech: Luke Platfoot, Wayne Smathers; Polysonics: Michael Rees; Sustainable Building Partners: Mike Babcock



Y-12 National Security Complex Fire Department, Oak Ridge, TN

The former fire station at the Y-12 National Security Complex dated back to World War II. Designed for an earlier era, it was cramped, outdated and worn and did not meet standards for the modern and specialized response of this unique government facility.

The new station includes areas for bunks, living quarters, active and classroom training, administrative operations, bays, and other firematic spaces for vehicles, equipment, and specialized gear and tools.

The integrated training regimens on both mezzanines have enhanced the quality and capacity to conduct active training.

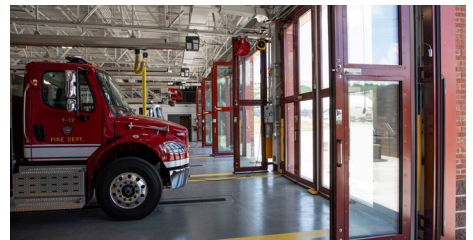
A greatly improved work-life environment was created for the first responders who are housed in the new facility.

This innovative, L-shaped station has two floors that have a training/storage mezzanine on each leg of the apparatus bays. Specific types of apparatus can respond out of the four drive-through bays on the west side (directly off of the living quarters). The other five bays that are on the north side are for more specialized preventative vehicles and equipment.

The lower floor of the station houses the dayroom, bunks and firematic operations, including storage for uncommon gear, such as hazmat suits and associated supplies.

The upper floor comprises space for 14 command officers and 11 administrative staff. Additionally, this floor has a state-of-the-art classroom training facility for 50 people. One of the unique aspects of the station is the alerting system, which is designed to directly broadcast emergency calls from anywhere on the complex.

One of the greatest challenges in designing and constructing this station was access to the site. Tight security requirements meant that the members of the design team weren't permitted to bring phones, cameras or any electronics to the site. Instead, they were limited to working from notes, drawings and memory.



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Official Project Name: Unified Fire Service Area Fire Station #102

Project City/State: Magna, UT

Date Completed: April 15, 2024

Fire Chief: Dominic Burchett

Project Area (sq. ft.): 10,110

Total Cost: \$4,921,732

Cost Per Square Foot: \$487

Architect/Firm Name: AJC

Architects, BRW Architects

Website: ajcarchitects.com,

brwarch.com/fire

Design Team: AJC Architects:

Architect-of-Record: Heber Slabbert,

AIA; Daniel Gasser, AIA; Steve

Simmons, AIA; BRW Architects:

Associate Architect: Ray Holliday,

AIA; Daniel Pesek, AIA; Logan Lebeda,

AIA; Civil: Talisman Civil Consultants;

Structural: KPFF Consulting

Engineers; Mechanical/Plumbing:

WHW Engineering;

Electrical: BNA Consulting;

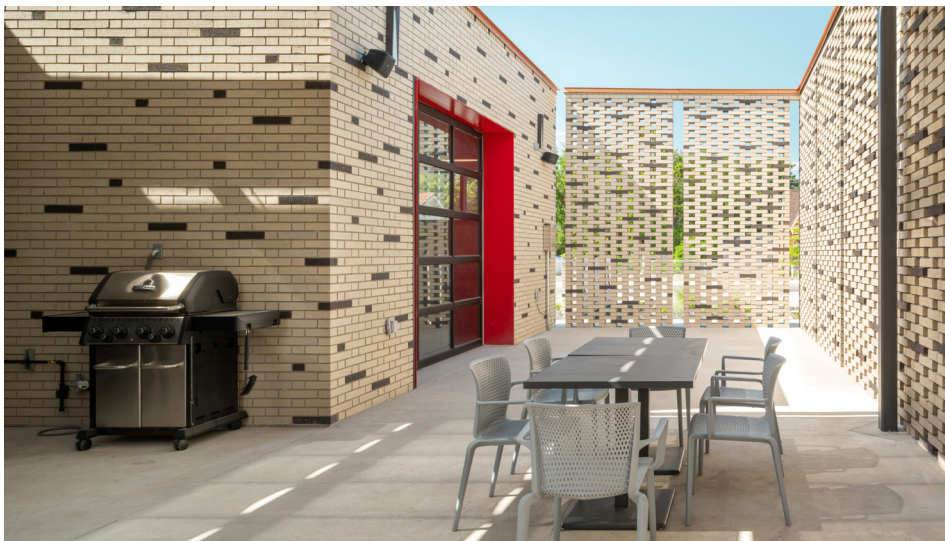
Landscape: ArcSitio Design



Unified Fire Service Area Fire Station #102, Magna, UT

The new Unified Fire Service Area (UFSA) Fire Station #102 is more than just a building. It's a symbol of 45 years of dedication and unwavering commitment from first responders to their community. Expanding on the original prototype design to maximize the district's resources, the station's exterior pays homage to Magna's rich history in the copper mining industry. The materiality features a sophisticated blend of white and black brick, which is elegantly accented with warm copper coping, signage and metal panels that are woven in a historically inspired pattern.

Replacing the original 1979 station, which was damaged by a 5.7-magnitude earthquake in March 2020, the new station efficiently utilizes its compact half-acre site. Maintaining the station's original location was crucial for its role as a civic monument and for optimal response times. The design team prioritized functionality and safety, to ensure that the site met all operational needs.





Fire Station #102 was designed meticulously with the well-being of its first responders in mind. Thoughtfully planned decontamination areas, a fully equipped exercise room and individual bedrooms that have room-specific alerting systems are among the many features that promote physical health.

The station includes radiant heating systems under the apparatus bay apron to prevent ice buildup and reduce the risk of apparatus sliding when exiting the bays.

For mental health, spacious open-concept areas, such as the dayroom, kitchen and adjacent screened patio, provide essential spaces for decompression, relaxation and camaraderie.

Built to last more than 45 years, the station has a design that emphasizes durability, with enhanced resistance to lateral loads that are caused by earthquakes. Beyond durability, the new station boasts sustainable strategies, space optimization and health-focused design. Embodying the spirit and strength of the Magna community, this new station not only honors the past but also paves the way for a safer and more resilient future.





Official Project Name: Clearwater Beach Fire Station 46

Project City/State: Clearwater, FL

Date Completed: Oct. 2, 2023

Fire Chief: Scott Ehlers

Project Area (sq. ft.): 11,490

Total Cost: \$8,500,000

Cost Per Square Foot: \$740

Architect/Firm Name: WJArchitects

Website: wjarc.com

Design Team: WJArchitects: Jeff McDowell, Senior Project Manager; Sanchelle Mercer, Project Manager; MEP: Voltair Consulting Engineers; Structural: Master Consulting Engineers; Civil: TransSystems; Landscape: PlaceMaker Design Studio; FEMA Flood Consultant: J.R. Evans Engineering



Clearwater Beach Fire Station 46, Clearwater, FL

Fire Station 46, which is known affectionately as the “Beach House,” occupies Mandalay Bay Waterfront Park, which is situated on the Gulf of Mexico. This historic site has hosted a fire station since 1920. The current iteration is a modern, resilient and sustainable station that honors the past while providing a safe and healthy living environment for many years to come.

The project initiated with an evaluation of the existing fire station, contemplating potential relocation or renovation. The decision was made to rebuild the existing station within the park, providing elevated positioning, integration with existing park structures, heightened community presence, and improved entry and exit safety.

The beachfront location introduced unique challenges to the project, requiring strategic thinking in logistics, base flood elevation (BFE), foundation design and break-away walls to meet FEMA requirements. The foundation consists of a 30-inch mat foundation that’s located under the scour line, with columns that are stubbed up to an 8-inch slab. All lower walls that are below BFE are designed to break away from the superstructure of the building as a means of reducing the likelihood of total building failure in the event of a major flood or storm-surge event.

The design of the 11,490-sq.-ft., two-story facility accommodates two-and-a-half garage bays for apparatus and ATVs, offices, a dayroom/kitchen, an expanded number of private sleeping quarters, a designated triage area for beach walk-ins and a fitness room.

Notably, this station is built to withstand hurricanes and major storm events, with a structural design to endure wind speeds that are in excess of 157 mph.

Understanding the station’s importance to the surrounding community, design elements that pay homage to the previous station include reuse of the original fire station’s fire poles, bollards, decorative door moldings and signage.





Goodyear Fire Station No. 188, Goodyear, AZ

Located 25 miles west of the Phoenix area, Station 188 occupies 4.29 acres of the 8.62-acre site, leaving 4.33 acres of open space for a future police station. The site includes public parking, staff parking, an exterior patio, a generator, water retention and water-wise landscaping.

The desert landscape and the surrounding community inspired the design team to create a fire station that blends traditional and modern elements. Durable natural materials and subdued earth tones create a sense of place and pay homage to the area's architectural heritage.

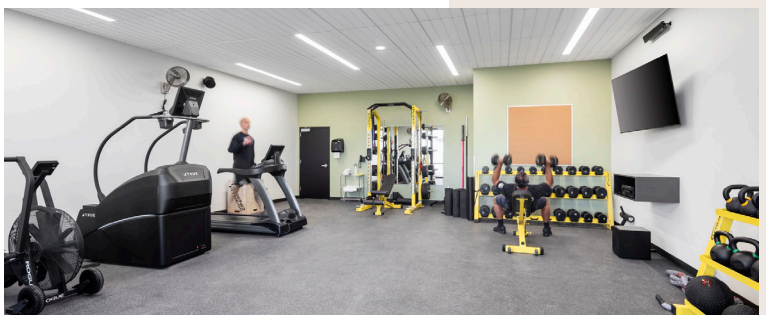
The station is a prototype design that's adaptable to future sites. It includes three apparatus bays, eight dormitories, one captain's dorm, a fitness room, an outdoor cooking area, work/living space and support spaces. Also included in the facility are a mezzanine level, a rear apron canopy and a three-story training tower.

The city commissioned a local artist to create a mural that celebrates the area's culture and its history of farming.

Hot Zone signage throughout the building allows firefighters to quickly identify each area. Decontamination showers were placed strategically in transition corridors between apparatus bays and living areas to help the crew to remove contaminants from their skin and clothing.

The design team and fire department demonstrated their resilience and dedication by successfully overcoming critical challenges. These included annexation and half-street improvements of Citrus Road, a well-site relocation and construction escalations during a rapidly inflating market.

The state-of-the-art fire station is designed to exceed current industry standards and best practices regarding code compliance, efficiency, safety, cleanliness and disease prevention. Its thoughtful design and strategic features aim to enhance the effectiveness of firefighters and their ability to serve the community.



Perlman
Architects

Official Project Name: Goodyear Fire Station No. 188

Project City/State: Goodyear, AZ

Date Completed: Feb. 15, 2024

Fire Chief: Paul Luizzi

Project Area (sq. ft.): 14,806

Total Cost: \$16,985,607

Cost Per Square Foot: \$1,147

Architect/Firm Name: Perlman Architects

Website: perlmanaz.com

Design Team: Perlman Architects: Ken Powers, Architect of Record; Erik Thomsen, Designer; Gerrald Adams, Project Manager; Civil: Bill Gasque, Civil Design Solutions; Structural: David Schott, Simply Structural; Associated Mechanical Engineers: George Josephs; M&P: Sheldon McInelly, Akribis Engineers; Electrical: John Echeverri, EJ Engineering; Fire Protection: Logan Simpson; Landscape: Jerry Moar



plan one / architects

Official Project Name: Cheyenne Fire Rescue Stations

Project City/State: Cheyenne, WY

Date Completed: Dec. 31, 2023

Fire Chief: John Kopper

Project Area (sq. ft.): 11,404 per station

Total Cost: \$18,546,458

Cost Per Square Foot: \$542

Architect/Firm Name: Plan One/Architects

Website: planone.com

Design Team: Plan One/Architects; Architect of Record; Civil: KL&A Engineers; Structural: Plan One/Architects; Mechanical & Electrical: WSP; Fire Station Consultant: TCA Architecture + Planning + Design



Cheyenne Fire Rescue Stations, Cheyenne, WY

This versatile, single-story fire station design is intended for three different locations and is tailored for a single company per station, which ensures that each facility is optimized for the specific needs of its assigned fire company. The design considers safety, Americans with Disabilities Act accessibility, energy efficiency and quick response times.

The exterior is designed with durable, low-maintenance materials. The entry has a secure vestibule that the firefighters can monitor.

The building is divided into separate zones to mitigate firefighter contaminant exposure. The decontamination room and bunker gear storage are on one side of the apparatus bay, and the sleeping and living areas are on the other side.

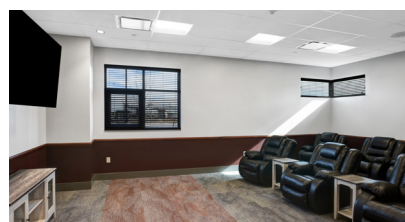
The four-fold doors at the front of the station are energy efficient, because they minimize heating and cooling losses by requiring no more than seven seconds to open. The seven-second time for the doors to open also minimizes the risk of drivers running into the doors before they are fully opened when apparatus leave on a call.

There is a physical training area, a dayroom and a resource room. The large kitchen includes a switch to turn off the gas to the cooking appliances when members head out on an emergency call.

The interior finishes of the building are intended to be durable and low maintenance.

The apparatus bay includes a system to remove exhaust directly at the vehicles' tailpipes and has plenty of space to store and dry hoses.

The new fire stations play a vital role in improving the overall safety and efficiency of the city's fire department and its members.





Denton Fire/ARFF Station 9, Denton, TX

Station 9 combines traditional emergency service to the surrounding area with aircraft rescue and firefighting (ARFF) service to the Denton Enterprise Airport, which accommodates more than 200,000 operations per year.

The station intersects the airport's security boundary, with the department's 3,000-gallon ARFF RIV 4-WD Squad responding to the runways at the rear, while other apparatus respond to an area of massive growth, including a large nearby warehouse and manufacturing area.

A two-story design was utilized to reduce the building footprint on the limited site, placing the second-floor living areas closer to the bays to reduce response times and allowing for an elevated patio/observation deck that's equipped with air-traffic speakers and a view of airplane traffic.

The roof design hearkens to traditional barrel-roof airplane hangars. The building brick ties into the adjacent terminal building, which in turn was updated with exterior metal panels to match the new station. Interior wall finish that's near the dining table mimics riveted airplane cladding.

The four-bay station houses seven personnel, providing six individual firefighter dormitories, three gender-neutral restroom/showers, a station officer suite, a report-writing area, a fitness area that has a roll-up door that provides access to a covered exterior space, and a police department landing office. The dayroom features tiered seating and a view down into the bay below and is separated from the kitchen/dining area to provide a dark/quiet recharge area away from busy activity.

Other unique features include:

- Two fire poles for quick egress from the Cold Zone.
- Custom infrared sauna in the Warm Zone.
- Locker vestibules that provide privacy and allow oncoming shift access without waking crew members who are sleeping.
- Laundry chute in the second-floor hallway down to the laundry room.
- Security grilles at bay doors that permit natural ventilation.



Official Project Name: Denton Fire/ARFF Station 9

Project City/State: Denton, TX

Date Completed: July 24, 2024

Fire Chief: Kenneth Hedges

Project Area (sq. ft.): 14,059

Total Cost: \$12,054,348

Cost Per Square Foot: \$857.41

Architect/Firm Name: Martinez Architects

Website: martinez-architects.com

Design Team: Martinez Architects:

Justin Myers, Peter Fonicello; General

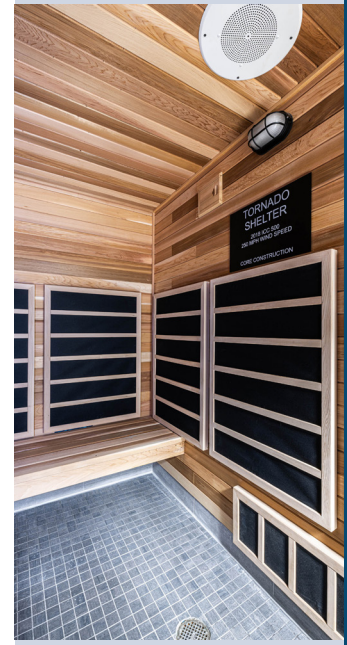
Contractor: CORE Construction;

Architect-of-Record/Landscape/

MEP/Interiors: Parkhill; Civil: MJ

Thomas; Structural: Alpha Consulting;

Technology: Datacom



BRW
ARCHITECTS

Official Project Name: El Paso Fire Station No. 36

Project City/State: El Paso, TX

Date Completed: Oct. 23, 2023

Fire Chief: Jonathan Killings

Project Area (sq. ft.): 12,212

Total Cost: \$7,802,505

Cost Per Square Foot: \$639

Architect/Firm Name: BRW Architects

Website: brwarch.com/fire

Design Team: BRW Architects:

Architect of Record: Ray Holliday, AIA;

Leslie Tijerina, Associate AIA; Associate

Architect: Castles Design Group:

Rene Melendez, AIA; Civil: Quantum

Engineering; Structural: Gessner

Engineering; MEP: DBR Engineering



El Paso Fire Station No. 36, El Paso, TX

Fire Station No. 36 embodies the city of El Paso's dedication to blending functionality, performance and aesthetic appeal. Designed to complement the rugged Franklin Mountains and enhance the desert landscape, the station integrates local materials and contemporary design with West Texas warmth.

Developing a solution for the 1.1-acre site with a 24-foot elevation change next to a hospital and a community jogging/bike path was no small feat. Members of the design team worked with the civil engineering team to ensure that the driveways were navigable by fire apparatus. Ramps and well-lit crosswalks ensure pedestrian accessibility and safety. The site of the facility also features a small pocket park that has a public art installation that's dedicated to the station's first responders.

Sustainable practices were crucial in addressing El Paso's arid climate. The station uses high-efficiency HVAC systems, operable windows for natural ventilation and light-colored roofing materials to reduce energy consumption. Xeriscaping and water conservation methods minimize water usage, and locally quarried stone and brick reduced transportation costs while supporting the local economy.

Supporting the wellness of the fire and EMS crews was the primary design focus of the project. The station includes decontamination areas, airlocks and a direct-capture exhaust system to minimize members' exposure to carcinogens.

Designed for three shifts of seven personnel, the open-concept dayroom/kitchen/dining area promotes social interaction. The fully equipped fitness room opens onto a private, wraparound patio that's shared with the dayroom and provides outdoor space for decompression and workouts. The design of the second floor features dormitory-style rooms with individual beds, to promote communal living and camaraderie.

Fire Station No. 36 provides essential coverage to the city's growing north end and serves as a community hub, with a training room available for local events. This project sets a new standard for future stations in the city and exemplifies excellence in public safety infrastructure.

Supporting the wellness of the fire and EMS crews was the primary design focus of the project. The station includes decontamination areas, airlocks and a direct-capture exhaust system to minimize members' exposure to carcinogens.



Official Project Name: Highland Park Fire Department

Project City/State: Highland Park, IL

Date Completed: May 12, 2023

Fire Chief: Joe Schrage

Project Area (sq. ft.): 13,500

Total Cost: \$6,617,000

Cost Per Square Foot: \$490

Architect/Firm Name: Williams Architects

Website: williams-architects.com

Design Team: Williams Architects:

Architect; Interiors: Williams Interiors;

Civil: Gewalt Hamilton Associates;

Structural: IMEG Corp.; MEP: WT

Group; Landscape: Upland Design; AV/

Communications: Sentinel Technologies;

Door Hardware: Alegion



Highland Park Fire Department, Highland Park, IL

The 13,500-sq.-ft. Highland Park Fire Department facility has one level below grade and two levels above. The apparatus bay allows safe and efficient maneuvering around vehicles and is served by accessory rooms, such as maintenance space, turnout gear, extractors and gear dryers.

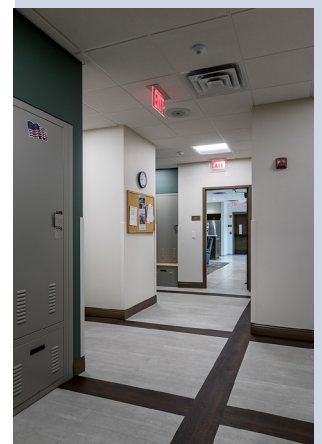
The ground floor's large muster room provides direct view and access to the apparatus bay and the main entrance. The balance of the ground floor contains the required stairwells/elevator for second-floor and basement egress. A tornado shelter is provided to house occupants for as long as two hours in 250-mph winds.

The second floor contains all living areas for as many as six firefighters. It includes a dayroom, a kitchen, a dining room, bunkrooms, a locker area and toilet/shower facilities. The bunkroom and locker/toilet areas are gender-neutral; the two toilet/showers are contained in single-user private rooms. A modest outdoor patio/deck is available off the dining room to the east.

The lower level has an exercise room, to comfortably and safely fit the department's equipment, as well as valuable storage space.

The building is fully accessible per the State of Illinois Accessibility Code and the Americans with Disabilities Act of 2010. The facility also complies with the city of Highland Park's newly adopted 2018 version of the International Building Code, Fire Code, Mechanical Code and Fuel Gas Code and the Illinois Energy Conservation Code.

The construction of the building's exterior comprises a combination of brick, stone and cement plaster to satisfy the goal of reflecting the 1930s Tudor Style of the design of the original fire station. The overhead garage doors allow passage of modern-size firefighting equipment. The building is topped with steep residential roof lines to mimic the Tudor tradition.





Official Project Name: Indio Public Safety Campus Fire Station 86

Project City/State: Indio, CA

Date Completed: March 5, 2024

Riverside County Fire Chief: Bill Weiser

Project Area (sq. ft.): 14,000

Total Cost: \$12,650,000

Cost Per Square Foot: \$904

Architect/Firm Name: Holt Architecture

Website: holtarchitecture.com

Design Team: Holt Architecture:

Matthew Acton, NCARB, Principal;

Thomas Howell, AIA, Senior Principal;

Wiseman + Rohy Structural Engineers:

Steven Rohy, Principal; VCA Engineers:

Virgil Aonana, Principal; Tilden-Coil

Constructors; Bryant Ismerio, Project

Executive; P2S Engineering; Scott

Newman, Mechanical; Lars Henderson,

Electrical



Indio Public Safety Campus Fire Station 86, Indio, CA

Fire Station 86, which is located in the Coachella Valley city of Indio, was built originally in 1974 to house the chief of the department and two firefighters. Although efficient for its time, the station was outgrown because of growth in population that demands more personnel and resources for response. Today, a staff of 10 firefighters per day responds to calls on three apparatus that are housed in the new bay that's complete with bi-fold doors (to decrease potential for door collisions) as well as a Plymovent system to capture engine exhaust, to reduce carcinogenic exposure.

The look of the new station is mid-century modern, designed for a 50-year service life with space for future staffing and expansions. A commercial kitchen that has industrial-grade appliances provides ample cooking and dining space for the entire crew. The semiprivate and individual bedrooms have sound-deadening insulation to provide space for quiet down time.

The variant refrigerator flow heating and cooling system allows for individualized setting of environmental controls in each space of the facility.

The station uses design elements to eliminate 90 percent of direct sun light, to reduce solar heat gain, which is a necessity in the desert, where temperatures reach more than 110 degrees Fahrenheit during the summer months. The use of electrochromic glazing allows for the adjustment of the tinting of the windows automatically to minimize direct sunlight while allowing natural light, eliminating glare and further enabling the station to stay cool in the harsh climate.

A fully equipped, 468-sq.-ft. gym that connects to a 400-sq.-ft. outdoor fitness area enables the members of the crews to work out in-house, which ensures that they remain ready for emergency responses.

An additional 2,000 sq. ft. of space was dedicated to a soon-to-be-built training tower, to allow crews from throughout the battalion to train together.

The end result of the design and construction of Fire Station 86: a gem of the desert.





CAREER 2 NOTABLE

Las Cruces Fire Station #3, Las Cruces, NM

Fire Station #3 replaces the existing station on an adjacent lot to provide fire protection and EMS to west portion of Las Cruces. The 12,250-sq.-ft. station is designed with three apparatus bays and a capacity for as many as 10 firefighters per shift. The design and construction of the new station delivers on the goals that were sought by the department: fast turnout times, supporting mental health and supporting physical health and strength.

Fast turnout times were achieved by placing the bunkrooms and the dayroom in proximity to the apparatus bays and the turnout gear rooms. State-of-the-art, high-speed roll-up doors at the apparatus bay exits allow for very fast response times.

Mental health and well-being were addressed through abundant access to daylight via storefront windows at the dayroom and kitchen, which bring in morning light and views of nature. The orientation to eastern and western sunlight was critical to maintain strong circadian rhythms over long shifts.

Supporting physical health was achieved by providing multiple opportunities for various trainings and employing a decontamination sequence. A large outdoor training yard that's adjacent to the fitness room and a training tower that's linked to a large mezzanine as part of the apparatus bays allow for circuit training. The decontamination sequence was laid out with the decon showers and clean laundry acting as a transition from the Hot Zones of the apparatus bays to the Cool Zones of the residential and office areas.

The station is designed to achieve LEED Silver Certification and cut energy consumption through use of a photovoltaic system that supports a very energy efficient variable refrigerant flow mechanical system.



Dekker
Architecture in Progress

Official Project Name: Las Cruces Fire Station #3

Project City/State: Las Cruces, NM

Date Completed: Feb. 21, 2022

Fire Chief: Justin Smith

Project Area (sq. ft.): 12,250

Total Cost: \$5,120,500

Cost Per Square Foot: \$418

Architect/Firm Name: Dekker

Website: dekkerdesign.org

Design Team: Dekker Design:

Architectural, Structural, Interiors,

Landscape; MEP: RBM Engineering;

Civil: Bohannon Huston





Official Project Name: Leander Fire Station No. 5

Project City/State: Leander, TX

Date Completed: March 9, 2022

Fire Chief: Billy Wusterhausen

Project Area (sq. ft.): 12,326

Total Cost: \$4,325,448

Cost Per Square Foot: \$350.92

Architect/Firm Name: Komatsu Architecture

Website: komatsu-inc.com

Design Team: Komatsu Architecture: Karl A. Komatsu, AIA, Principal-in-Charge; Ryan Brantley, RA, RID, Project Architect; Amy R. Sibley, RID, Associate AIA, Programming & Interior Design; Anne McBurnett, RID, NCIDQ, Interior Design



Leander Fire Station No. 5, Leander, TX

The city of Leander wanted to design a new fire station in the Travisso residential development, which donated the site to the city. The new fire station, which is located in the Hill Country of Texas, was required to meet the housing development's strict exterior design requirements while meeting the needs of the fire department.

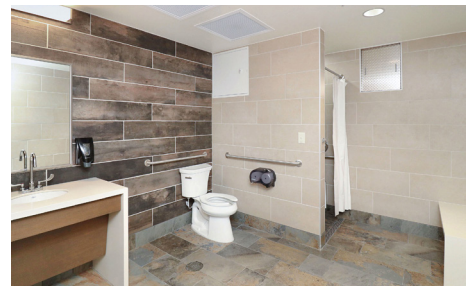
The project was awarded to Komatsu Architecture based on the city's positive experience working with the firm on Fire Station No. 1, which was completed in 2018.

The fire department needed a station that has two bays, eight private dormitory rooms, workout space, one officer office/dorm suite, a living area and a remote office for use by the police department. The layout also had to take advantage of the site, to provide views and access to the local landscape.

The exterior was designed to respect the Travisso architectural design of the residential area and required approval from the development board. Owner funding required three design options to determine which program would meet final budget.

The Leander Fire Department was one of the first to employ a sophisticated alerting system that integrates with the gas lines and bay door controls. The system shuts off flow to the gas lines in the kitchen and patio. The bay exhaust system kicks on when an alert is received and when the doors are opened.

This was the first fire station in Leander that was required to meet ICC 500 shelter requirements. These are independent structures that are within the station that are resistant to natural disasters and can withstand destructive winds of as fast as 250 mph. A shower room meets all FEMA requirements. The station's design supports rapid emergency response times by wrapping the dorms around the shower rooms to provide three paths to access the bay.





Official Project Name: Manhattan Beach Fire Station 2

Project City/State: Manhattan Beach, CA

Date Completed: Dec. 1, 2023

Fire Chief: Mike Lang

Project Area (sq. ft.): 8,421

Total Cost: \$7,055,000

Cost Per Square Foot: \$838

Architect/Firm Name: PBK

Website: pbk.com

Design Team: PBK: Kelley Needham,

Principal-in-Charge; Simon Chang,

Designer; Shih-Jing Yen, Project

Manager; Civil: MSL Engineering;

Structural: Miyamoto; Mechanical:

Pocock Design Solutions; Electrical:

A&F Engineering Group; Landscape:

Cornerstone Studios



Manhattan Beach Fire Station 2, Manhattan Beach, CA

Manhattan Beach Fire Station 2 is an 8,421-sq.-ft. facility that was built by the city of Manhattan Beach. Designed to replace an existing station, the project is located on a 0.3-acre site that's situated in a mixed-use area of the city.

The two-story station is designed to accommodate six firefighters in an individual dormitory setting. Other station features include a two-bay apparatus room, administrative offices, a kitchen, a dining room, a dayroom, a physical training room, a shop and various support spaces that are required for a facility of this type. Drive-through capability wasn't possible because of a variety of site restraints.

The station was designed in a residential style in keeping with the design goals of the city and the local community. Finish materials include exterior plaster, stone veneer and concrete tile roofing. Sloped roof forms are used in conjunction with parapet areas that are designed to screen mechanical equipment.



Official Project Name: Nampa Fire Station #6

Project City/State: Nampa, ID

Date Completed: Aug. 16, 2023

Fire Chief: Nick Adams

Project Area (sq. ft.): 10,224

Total Cost: \$6,800,000

Cost Per Square Foot: \$665.10

Architect/Firm Name:

Rice Fergus Miller

Website: rfmarch.com

Design Team: Rice Fergus Miller: Dave Fergus, Gunnar Gladics, Richard Carlos, Sarah Gladics, Keith Whiting, Liz Salas, Elaine Liffgens; Pivot North Architecture; Beniton Construction



Nampa Fire Station #6, Nampa, ID

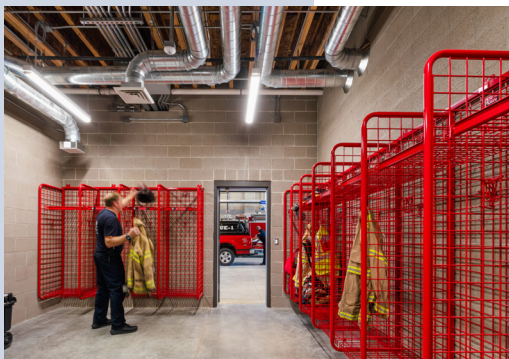
This 10,224-sq.-ft. Fire Station #6 design-build project was formulated on a premise to meet current and future needs of the Nampa Rural Fire Protection District while improving response times for the community that it serves.

The station features two drive-through apparatus bays, one back-in bay, a workroom, a dayroom, a kitchen, fitness space, six sleep rooms, a shop/air room, and specialized decontamination and bunker gear areas.

This station marks a new era for the department. The project focused a significant effort on addressing and improving firefighter health and safety in quarters. The team followed guidance from the Healthy-In-Healthy-Out initiative, looking for additional opportunities to improve crew safety. One result of value engineering is a dedicated training platform that's within one of the apparatus bays. Understanding the importance of in-quarters training, the design team incorporated this feature as it reduced overall square footage in the apparatus bays. The training platform was equipped for high- and low-angle rope rescue training as well as ladder and other multistory training.

Located in the growing Treasure Valley area, the project faced challenges, including extreme labor shortages and cost inflation because of the pandemic. Despite these hurdles, the team maintained transparent communication with the district, updating it on market conditions and offering innovative solutions to keep the project within budget. This approach led to flexible alternatives, which the district adopted by adjusting the Guaranteed Maximum Price set in 2022.

The project was delivered without any change orders, except for one owner-requested change regarding hand-wash faucet types. This successful execution demonstrates the team's dedication to high-quality, functional and cost-effective designs under challenging circumstances. The collaboration exemplifies commitment to community-focused design and operational excellence, which ensures that Fire Station #6 will serve the district and community for years to come.



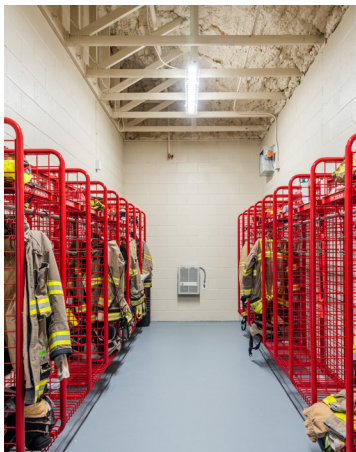


New Riverside Fire Station, Bluffton, SC

Set within a rural park landscape, the New Riverside Fire Station for the Bluffton Township Fire District (BTFD) defines the entrance to neighboring developments, New Riverside and Palmetto Bluff. The station was crafted thoughtfully to blend with the existing park, Riverside Barn architecture, and the future passive park and walking trails. The station was the first in the fire district to incorporate a full Beaufort County EMS station as part of the overall design and community services.

The massing, colors and materials of the fire station's apparatus bay allude to the existing rural barn architecture, while the balance of the station is a more traditional Lowcountry architecture with siding and a brick water table.

Inside, the 8,000-sq.-ft. station is more than a business but a home away from home for the members who serve and protect the community. The interior design of the facility maximizes operational efficiencies, durable materials, and the well-being of the firefighters and EMS personnel.

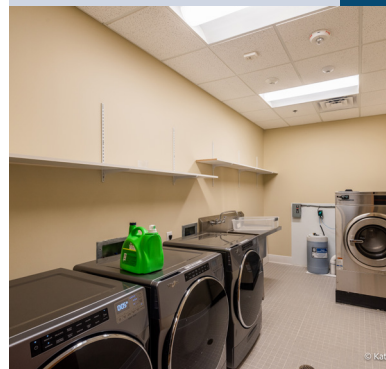


CAREER 2 NOTABLE



Official Project Name: New Riverside Fire Station
Project City/State: Bluffton, SC
Date Completed: June 1, 2021
Bluffton Twp. Fire District Fire Chief: Paul Boulware
Project Area (sq. ft.): 8,000
Total Cost: \$3,500,000
Cost Per Square Foot: \$437.50
Architect/Firm Name: Court Atkins Group
Website: courtatkins.com
Design Team: Court Atkins Group: Architecture & Interior Design; Contractor: Fraser Construction; Structural: Cranston Engineering Group; MEP/FP: Optima Engineering; Civil: Ward Edwards; Landscape: JK Tiller Associates

PHOTOS BY KATE MORRISON PHOTOGRAPHY



Official Project Name: Overland Park Fire Department Station 48

Project City/State: Overland Park, KS

Date Completed: Dec. 1, 2021

Fire Chief: Alan Long

Project Area (sq. ft.): 10,880

Total Cost: \$6,930,000

Cost Per Square Foot: \$637

Architect/Firm Name: sfs architecture

Website: sfsarch.com

Design Team: sfs architecture: Kwame Smith, AIA, Principal; Lindsay Tatro, AIA, Project Manager; Dirk Henke, AIA, Project Architect; Kelsey Mahoney, Interior Designer; Civil & Landscape Design: McClure; Structural: Bob D. Campbell & Co.; MEP/FP: FSC Inc.; Construction Manager: McCownGordon Construction



Overland Park Fire Department Station 48, Overland Park, KS

Born of the unique partnership between the Overland Park Fire Department and the Blue-Valley School District, Station 48 is dedicated to serving the community.

Through collaboration with the administrators of the school's Fire Science program, this new, 10,880-sq.-ft. career fire station demonstrates best practices in emergency response while providing the means to educate students on the importance of first responder careers, to foster a new generation of dedicated professionals.

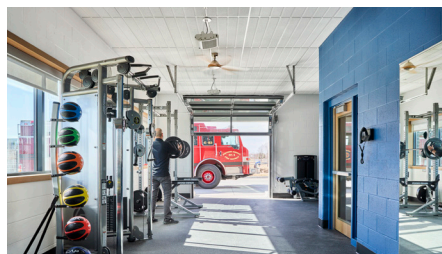
The station, which is constructed on the school's campus, is connected both visually and physically. Firefighters can train on the school's trail connection and running track. The dayroom does double duty as a tech-equipped training room for recruits. Small training spaces, such as the equipment check area, provide on-the-job training with real-time learning opportunities.

The design and construction of the station prioritize occupational health through strict contamination control measures. Organized into distinct hazard zones, the building manages exposure to harmful substances through careful organization of space and activity.

High-hazard zones, including the double-deep, drive-through apparatus bay, the decontamination area, and support spaces, are designed to contain and manage the highest contaminate risks. Moderate-hazard transition zones serve as buffers, limiting the transmission and exposure to harmful carcinogens. Low-hazard zones, which contain the station's living spaces, provide a safe and comfortable environment for firefighters.

Natural daylighting fills the station. Socialization, relaxation and physical health are promoted through communal kitchen and dining spaces, the open dayroom, enhanced indoor/outdoor connectivity and the daylit fitness center. Expected changing member gender ratios are accommodated through the inclusive locker room and changing rooms, while sleep equity is prioritized with private, acoustically separated bunkrooms.

Modern, welcoming and inventive, the design of Station 48 exemplifies the department's dedication to the health, safety and well-being of first responders. This innovative facility serves as a model for future fire stations and reflects a commitment to recruitment, retention and community collaboration.





Official Project Name: Redwood Fire Station
Project City/State: Los Gatos (Redwood Estates), CA
Date Completed: Nov. 2, 2023
Fire Chief: Suwana Kerdkaew
Project Area (sq. ft.): 8,202
Total Cost: \$8,340,518
Cost Per Square Foot: \$1,016.89
Architect/Firm Name: RRM Design Group
Website: rrmdesign.com
Design Team: RRM Design Group: Michael Scott, Principal; Todd Hansen, Quality Control Manager; Kathryn Hicks, Project Manager



Redwood Fire Station, Los Gatos (Redwood Estates), CA

Nestled in a mountain community along Highway 17, the Redwood Fire Station stands as a beacon of safety and innovation. Designed as a state-of-the-art replacement fire station, this two-story marvel harmonizes seamlessly with its natural surroundings while fulfilling the essential needs of the fire department and the community that it serves.

The ground floor boasts expansive apparatus bays and essential support spaces, along with modern exercise and office areas, to ensure that the firefighters are always at peak performance. Ascend to the second floor, and you'll find comfortable and thoughtfully designed living and sleeping quarters.

A watch tower offers a stunning view of the neighboring area and harkens back to the classic mountaintop watch tower. The station is part of an existing community campus that includes the community park, pool and community center with associated parking. Arrangements were made to provide fire apparatus circulation on the campus to allow for a safe, drive-through station.

Processes were included in the station to facilitate proper cleaning and separation of areas to protect firefighters and the community from contaminants.

Respectful of the mountain community's character, the design of Redwood Fire Station delivers more than just a functional facility; it provides a harmonious addition to the landscape, a testament to architectural excellence and a cornerstone of community resilience. This project embodies the spirit of dedication, safety and unity.



Official Project Name: Riverside County Fire Station 41
Project City/State: North Shore, CA
Date Completed: Nov. 20, 2023
Fire Chief: Bill Weiser
Project Area (sq. ft.): 7,550
Total Cost: \$9,900,000
Cost Per Square Foot: \$1,311
Architect/Firm Name: Holt Architecture
Website: holtarchitecture.com
Design Team: Holt Architecture: Matthew Acton, NCARB, Principal; Thomas Howell, AIA, Senior Principal; Wiseman + Rohy Structural Engineers: Steven Rohy, Principal; VCA Engineers: Virgil Aonana, Principal; Tilden-Coil Constructors: Bryant Ismerio, Project Executive



Riverside County Fire Station 41, North Shore, CA

Situated in the southeastern Coachella Valley on the banks of the Salton Sea, Fire Station 41 exemplifies excellence and durability in the harsh Mojave Desert climate. Built more than 50 years ago, the initial station was smaller than 1,000 sq. ft., lacking adequate living space and an apparatus bay. The need for a new station became urgent because of damage from seasonal thunderstorms and the potential for lithium-ion mining operations.

Designed to last more than 50 years, the new station boasts a modern mid-century design, reflecting the community's historical roots and prioritizing energy efficiency. It's designed for long-term weather resistance, minimal upkeep and future expansion. Materials were selected for their resilience to the area's extreme temperatures, which often exceed 120 degrees Fahrenheit during summer. Swisspearl fiber cement paneling on the exterior reduces solar heat gain, to maintain a cooler interior. The structure minimizes direct sunlight by 85 percent yet allows ambient light through numerous windows.

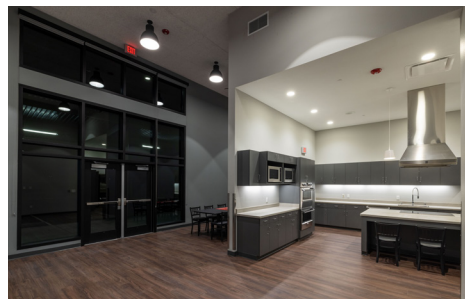
The firehouse's apparatus bay, which is equipped with a Plymovent system, is designed and constructed to protect staff from exposure to the diesel exhaust of emergency vehicles.

The station focuses on efficiency and safety, featuring a separate gear decontamination area that has PPE extractors and dryers to prevent carcinogen contamination in common areas. A negative pressure workspace ensures proper ventilation of fumes in the maintenance workshop.

Individual bedrooms and bathrooms provide privacy and reduce the spread of infectious diseases. A fully equipped exercise room opens to an outdoor space, to offer flexibility for physical training. The firehouse's large commercial kitchen, which is equipped with industrial-grade appliances, serves as a central gathering spot for crew meals and other activities.

Ample storage and sound-deadening insulation that's incorporated throughout the facility optimize the living quarters, to provide for sustainable and restful living.

Fire Station 41 stands as a testament to the department's commitment to the community and offers a safe, efficient and welcoming environment for first responders. Furthermore, it is designed to serve a diverse community population for generations to come.





Official Project Name: Waterloo Fire Station 12

Project City/State: Jessup, MD

Date Completed: April 30, 2023

Fire Chief: Louis Winston

Project Area (sq. ft.): 14,865

Total Cost: \$7,160,000

Cost Per Square Foot: \$482

Architect/Firm Name: Bignell Watkins Hasser Architects

Website: bigwaha.com

Design Team: Bignell Watkins Hasser Architects; Gregory S. Gilbert AIA, LEED GA, Architect of Record; Derek Hawkins, LEED AP BD+C, Project Manager; Ashby Williams, IIDA, NCIDQ, Interior Designer; Civil: Sill Engineering Group; Structural: Baker, Ingram & Associates; MEP: Gipe Associates; Commissioning/LEED: Sustainable Building Partners



Waterloo Fire Station 12, Jessup, MD

Waterloo Fire Station 12 is a testament to innovative design, because it delivers a space that serves the needs of the community and its firefighters with the environment in mind. The station prototype raises the standard for county fire stations, boasting three apparatus bays (with the capability to be expanded to four) as well as a complete police suite and private sleeping pods.

The design prioritizes efficiency with an open-concept layout that provides direct access to apparatus bays, to facilitate coordination among firefighters. Floor-to-ceiling windows flood the areas with natural light, and an exterior patio that's adjacent to a pond provides a space for leisure and camaraderie.

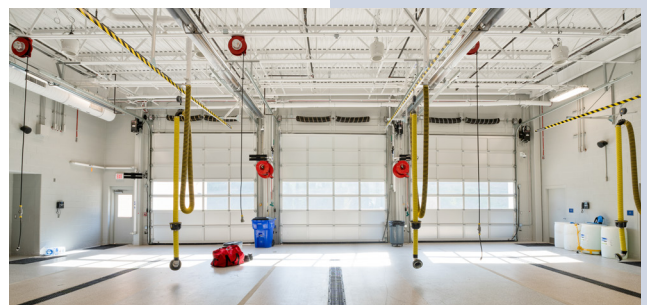
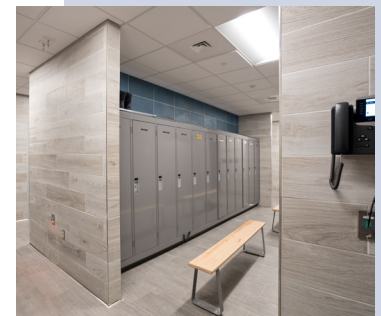
The station's design incorporates a kitchenette and a seating area for meals or impromptu meetings. The locker rooms offer gender neutral accommodations, with shared locker space that leads into private bathrooms and showers.

The design of the firehouse was influenced significantly by the COVID-19 pandemic to address heightened health concerns among its occupants. The station is equipped with an isolated PPE decontamination room and storage facility as well as a negative airlock vestibule that separates the apparatus bay and the living areas. Hand-washing stations, walk-off mats and confined sleeping quarters serve to limit the spread of airborne contaminants.

Waterloo Fire Station 12 further differentiates itself as a premiere station via sustainable design features, such as geothermal heating and cooling, roof-mounted solar photovoltaic panels and innovative stormwater systems that meet 100-year rainfall requirements. Large windows reduce the need for artificial lighting and optimize natural light in an open environment.

This project showcases a functional, sustainable and health-focused design. Required to achieve LEED Silver by county statute, the station surpassed this standard and earned LEED Gold.

Waterloo Fire Station 12 is more than a firehouse; it's a functional and efficient space that has the health, safety and well-being of its occupants at the core of its design.





Official Project Name: Caledonia Public Safety Facility

Project City/State: Caledonia, WI

Date Completed: April 1, 2024

Fire Chief: Jeff Henningfeld

Project Area (sq. ft.): 58,640

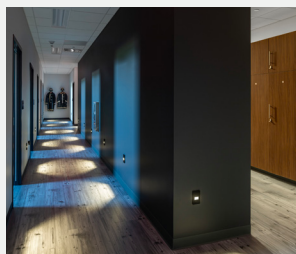
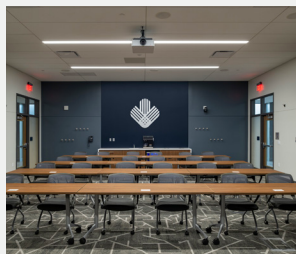
Total Cost: \$20,710,197

Cost Per Square Foot: \$353

Architect/Firm Name: FGM Architects

Website: fgmaarchitects.com

Design Team: FGM Architects: Ray Lee, Mark Price, Annabella Orlando, Louise Kowalczyk, Brittany Peterson, Anna Betts, Raegan Porter



Caledonia Public Safety Facility, Caledonia, WI

The village of Caledonia realized its vision of a municipal campus with the 2024 opening of a new public safety building that's designed to complement the neighboring Village Hall and is located to optimize emergency response times. The campus serves as a new hub for community activities via its adjacency to a popular park and planned walking paths.

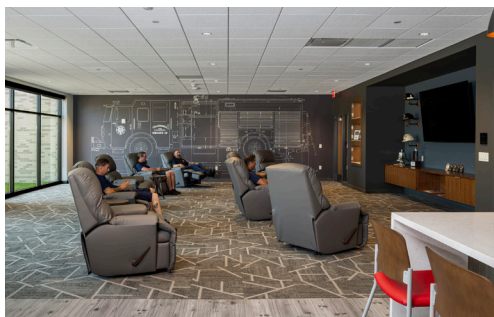
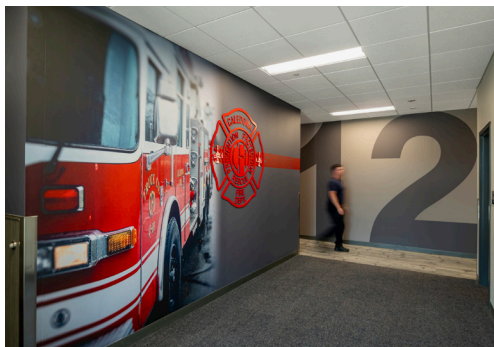
The public safety building houses the police and fire departments in distinct, secure wings that are connected by a shared public space that includes the main entrance. A welcoming lobby features historic community memorabilia and branding elements that promote civic pride. A multipurpose room is used for police and fire training as well as community meetings.

The public safety building has a fully equipped fitness room that's used by fire and police personnel, to ensure that Caledonia's first responders are physically fit and prepared for service.

The fire station includes three double-deep apparatus bays that have designated spaces for EMS storage, gear, hose drying racks and SCBA. The Hot Zone design includes a decontamination shower and separate gear-washing facilities. A retention pond that's on the campus is used for fire department training.

The fire station work quarters feature a reception area, offices for the fire chief and battalion chiefs, shared workspace for other fire personnel and a conference room.

In support of first responder well-being, the living quarters promote relaxation and camaraderie in an environment that emphasizes biophilic elements, including wood accents; soothing, neutral colors; durable finishes; and versatile furniture. Ample natural light and patio access create a strong connection to the outdoors. The dayroom accommodates as many as eight occupants. The fully equipped kitchen and dining area include multiple pantries and refrigerators, a seating island and a large dining table. The bunk quarters include nine individual sleeping rooms, a locker room and private toilet/shower rooms.





S|S&L
ARCHITECTS

Official Project Name: Auburn Public Safety Complex

Project City/State: Auburn, AL

Date Completed: Sept. 29, 2022

Fire Chief: John Lankford

Project Area (sq. ft.): 69,549

Total Cost: \$29,808,343

Cost Per Square Foot: \$428.59

Architect/Firm Name: Seay, Seay & Litchfield P.C.

Website: sslarch.com

Design Team: Seay, Seay & Litchfield: Nick Vansyoc, AIA, IIDA, Project Manager & Architect; Wes Osmer, AIA, LEED AP, Principal-in-Charge; Jeff Bazzell, AIA, LEED AP, Architect



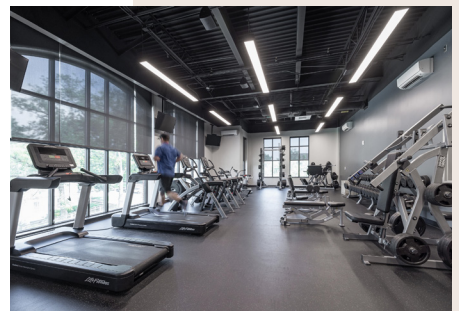
Auburn Public Safety Complex, Auburn, AL

The city of Auburn's Public Safety Complex is a 69,549-sq.-ft., state-of-the-art facility that serves as the central hub for the city's Public Safety Department, including the City Council Chamber, Municipal Court and Police Department. At the heart of the facility is the impressive Auburn Fire Department Station No. 1. The comprehensive facility not only enhances public safety but also serves as a vital educational resource for the community.

Spanning 20,000 sq. ft. of the overall building, Fire Station No. 1 boasts dormitory space with 19 beds, a spacious dayroom, a large commercial kitchen and dining area, laundry, storage and office spaces. The engine apparatus bay is designed to house all of the necessary equipment and features six four-fold retractable bay doors on the north and south sides to ensure rapid deployment.

Located just blocks from Auburn University, the Auburn Fire Department hosts a rigorous 17-week recruit training academy, providing EMT Basic, Firefighter I and Firefighter II training to numerous students each year. Fire Station No. 1 is equipped with several classroom and conference room spaces that are designed to support this dynamic program, along with public fire safety education initiatives. This combination of hands-on, demanding training and educational outreach ensures a well-prepared, knowledgeable firefighting force.

Additional amenities within the fire department area of the complex include offices for ranking firefighters, a large locker/shower room, and a fitness and conditioning center, which helps to ensure that the fire department team always is ready to serve.



HB&A
Architecture
AND
Planning

Official Project Name: Colorado Springs Fire Station #23 and Radio Shop

Project City/State: Colorado Springs, CO

Date Completed: Sept. 20, 2022

Fire Chief: Randy Royal

Project Area (sq. ft.): 17,400

Total Cost: \$4,800,000

Cost Per Square Foot: \$275

Architect/Firm Name: HB&A Architecture and Planning

Website: hbaa.com

Design Team: HB&A Architecture and Planning; Architect: Civil: Andy McChord, Kiowa Engineering; Structural: Jon Dietrich, MGA Structural Engineers; Fire Protection/Life Safety: Alex Schieber, incandescence life safety; Landscape: Jeremy Powell, Kimley-Horn and Associates; Cost Estimator: Bob Stanton, Stanton Construction; Schendt Engineering; Ken Merola, Mechanical & Plumbing; Jerry Pasley, Electrical



Colorado Springs Fire Station #23 and Radio Shop, Colorado Springs, CO

Colorado Springs Fire Station #23 and Radio Shop is a multiuse, preengineered metal building that's located on 4.6 acres. The 17,400-sq.-ft. facility was a cost-effective solution for two city departments that have similar requirements that outgrew their existing spaces.

The old 2,500-sq.-ft. fire station (two apparatus bays in the headquarters building on the same site) had a 56 percent increase in call volume over 13 years. At the same time, the city radio shop outgrew its 3,500-sq.-ft. space by which it provided service to more than 4,500 radio subscriber units.

The city of Colorado Springs recognized the related functionality of the fire department and the radio shop (office spaces, conference rooms and large bays for vehicles) and jumped at the opportunity to deliver a cost-conscious building that would best meet future needs of both of the departments.

The layout of the new facility is divided down the middle by four, full-height apparatus bays. A common space is located between them. Mezzanines are located on the second level. The fire station side of the building houses dormitory rooms; an officer's suite that has a private office and bathroom; four gender-neutral bathrooms; a public restroom; a dayroom; a dining room; a kitchen; and a fitness area. The station includes the most up-to-date health and safety measures, and it is decorated with durable finishes.

The radio shop side of the building has six offices, a conference room, a break room, gender-neutral restrooms, a server room and a large maintenance bay/tech area.

First estimates were \$1.73 million more than the stated budget. Value engineering items included reorienting the building on the existing site to reduce earthwork, paving and fencing costs; an alternative window manufacturer; and lower-cost lighting and HVAC packages. The value engineering didn't take away from the overall aesthetic and functionality of the facility.





Meridian Public Safety Campus, Meridian, ID

Meridian, which is one of the nation's fastest growing cities, faced an urgent need for new public safety facilities to serve its expanding community. What resulted is the design of a collaborative campus that includes Fire Station 8 and a modern police precinct and that's strategically located on the northwest corner of the city.

Fire Station 8 was crafted with a residential aesthetic, utilizing a gabled roof and durable composite shingle materials.

Designed to prioritize health and safety, the station incorporates a fitness area that has access to outdoor workout spaces and a dedicated wellness room.

The fire station's layout simultaneously optimizes workflows and anticipates future growth demands.

In contrast, the police precinct was planned with distinct operational zones to enhance efficiency. Divided into two masses, it strategically separates intake functions and offices while sharing emergency power systems. Security measures, such as opaque fencing, high windowsills and bulletproof glazing, ensure safety and privacy, complemented by serene interiors and specialized equipment storage.

Strategic site placement played a pivotal role in design and construction, positioning the precinct further back for ample parking and the fire station closer to the road to manage traffic effectively. This layout facilitates intuitive navigation for the public.

Navigating challenges, including COVID-19-induced cost inflation, the design team maintained fiscal discipline without compromising quality. Strategic material choices and adjustments preserved the integrity of the design while meeting functional and aesthetic objectives.

Together, these facilities form a cohesive public safety campus that balances the unique needs of the fire and police departments while presenting a unified architectural identity. Overcoming budget constraints and extreme labor shortages, the team delivered a resilient joint campus that supports Meridian's evolving public safety needs and prepares for future community growth.



Official Project Name: Meridian Public Safety Campus

Project City/State: Meridian, ID

Date Completed: Nov. 17, 2023

Fire Chief: Kristopher Blume

Project Area (sq. ft.): 22,900

Total Cost: \$14,997,696

Cost Per Square Foot: \$655

Architect/Firm Name:

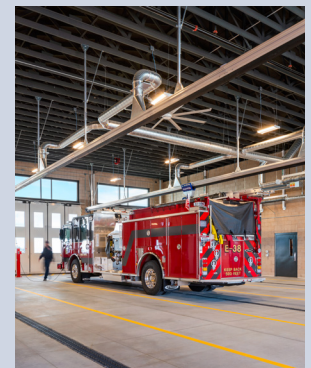
Rice Fergus Miller

Website: rfmarch.com

Design Team: Rice Fergus Miller:

Gunnar Gladics, Richard Carlos, Mike

Schubert; Pivot North Architecture





Official Project Name: Mills River Fire & Rescue

Project City/State: Mills River, NC

Date Completed: June 6, 2023

Fire Chief: Rick Livingston

Project Area (sq. ft.): 21,700

Total Cost: \$9,500,000

Cost Per Square Foot: \$438

Architect/Firm Name: Stewart-Cooper-Newell Architects

Website: scn-architects.com

Design Team: Stewart Cooper Newell Architects



Mills River Fire & Rescue, Mills River, NC

Rustic materials, such as stone, flashed brick and heavy timber, were used in the vein of North Carolina mountain architecture to produce the Mills River Fire & Rescue firehouse. The natural wood is highlighted in the entryway to the firehouse to provide a warm and inviting feel to the front door of the station.

The project presented the members of the design team with unique challenges with respect to land development issues that are specific to the delicate environment of the Blue Ridge Mountains and the regional watershed. In particular, the management of surface and subsurface hydrology, as well as the management of on-site and off-site sanitary sewerage utilities, were particularly challenging.

The new headquarters station replaces the original headquarters facility that far outlived its service life and features the most contemporary fire service and living quarters amenities, which will permit the department to provide the highest level of service to the citizens of Mills River for many decades to come.



Official Project Name: Scarborough Public Safety Complex
Project City/State: Scarborough, ME
Date Completed: Jan. 1, 2020
Fire Chief: Rich Kindelan
Project Area (sq. ft.): 52,500
Total Cost: \$19,200,000
Cost Per Square Foot: \$365
Architect/Firm Name: Context Architecture
Website: contextarc.com
Design Team: Context Architecture: Jeff Shaw, Principal-in-Charge; Ellen Light, Project Manager; Angela Campbell, Project Manager; Ken Propp, Project Designer; Yasmin Maura-Orihuela, Project Designer



Scarborough Public Safety Complex, Scarborough, ME

The project team worked with the town of Scarborough—from site selection through construction administration—to deliver a carefully programmed and well-designed public safety complex that accommodates the town’s current and future needs.

Because the condition of Scarborough’s former public safety building deteriorated to an unsalvageable extent, the town chose to construct new facilities on a strategically located site that could support modern public safety operations.

The new, energy-efficient facility contains a synergy of shared and flexible spaces that leverage departmental overlap, reduce cost and provide an expanded set of resources for the local population. It includes a state-of-the-art public training room that doubles as an emergency multipurpose space; an additional apparatus bay area for the display of an antique fire engine; and public restrooms that are accessible to visitors of the neighboring municipal park.

The interior of the facility features natural wood casework, with glazing that provides transparency in public areas, views of the surrounding landscape and a significant amount of natural light.

The complex’s exterior was designed in a manner to complement the adjacent Town Hall and several of the other buildings that are within the immediate architectural context.

The facility includes a training stair, an area for confined space rescue evolutions and a ladder tower, to maximize on-site training opportunities for the members of the fire department.

An equally sensitive approach was taken with the facility’s site design. Members of the project team coordinated closely with the landscape architect to develop a site plan that successfully responds to the town’s park master plan, challenging topography and an abundance of ledge as well as neighboring roads, pedestrian pathways and community sports areas.

Overall, Scarborough’s new public safety complex has become an integral part of the town’s civic campus and helps to serve community members in a more comprehensive, effective and inclusive way.



**JOINT FACILITIES
NOTABLE**

SWEETSPARKMAN
ARCHITECTURE & INTERIORS

Official Project Name: Venice Fire Station #1 and City Hall Expansion

Project City/State: Venice, FL

Date Completed: Sept. 1, 2022

Fire Chief: Frank Giddens

Project Area (sq. ft.): 18,695

Total Cost: \$11,900,000

Cost Per Square Foot: \$636.53

Architect/Firm Name: Sweet Sparkman Architecture & Interiors

Website: sweetsparkman.com

Design Team: Sweet Sparkman Architecture & Interiors: Todd M. Sweet, AIA, LEED AP, Architect of Record; Karl Bernhard, AIA, Project Manager; Cole Mears, Associate AIA, Project Designer; Shirley Quinlan, NCIDQ, Interior Designer



Venice Fire Station #1 and City Hall Expansion, Venice, FL

The city of Venice is a vulnerable, Gulf-side, barrier-island community. The city had two mandates: replace the existing, 1960s-era fire station and accommodate an expansion to City Hall.

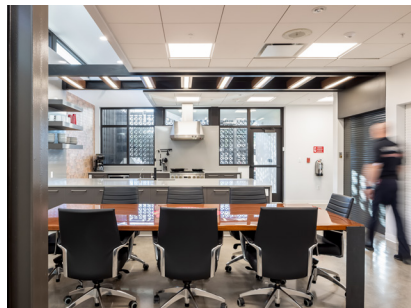
The design concept unifies the fire station and City Hall into the civic center campus that was envisioned in the historic 1926 John Nolan master plan.

The objective of the project was to design a new, three-bay, 12,000-sq.-ft. fire station, which effectively doubled the size of the existing station, and build a new building department annex for the city of Venice to alleviate overcrowding of several city departments—all on the same space-constrained site. The new, adjoining station shares amenities and critical infrastructure with City Hall, including a 520-sq.-ft. exercise room that has connected restrooms and showers; 900 sq. ft. of community space that includes a 475-sq.-ft. meeting room, a lobby and public restrooms; and a shared generator and chiller yard that serves the entire campus.

The fire station conforms to the city's Northern Italian overlay district design standards. The station includes a ground-floor, open-concept dayroom/dining area/kitchen that has lockable pantries; a report room; a lanai; three 70-foot-deep, drive-through apparatus bays; a bunker gear locker room; an air bottle fill room; a workbench; EMS storage; and a decontamination room.

The second floor prioritizes fire staff recovery, containing 10 single-occupancy bunkrooms, including one lieutenant's suite that has a private restroom, and three single-occupancy restrooms.

All spaces are stacked tightly to the side of the apparatus bay, to facilitate quick response times. Second-floor response is aided by two sets of stairs and a fire station slide. One of the two stairs extends to an additional level and has a wide center shaft to accommodate a Stokes basket and other training drills.





**FIREHOUSE
STATION DESIGN
AWARDS**

**TRAINING FACILITIES
BRONZE**



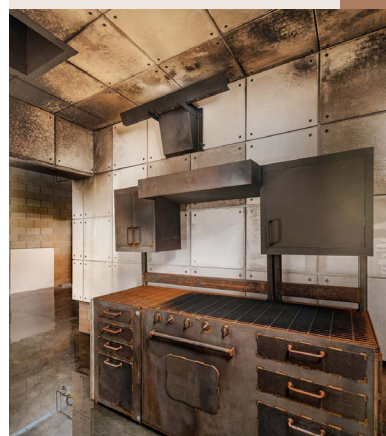
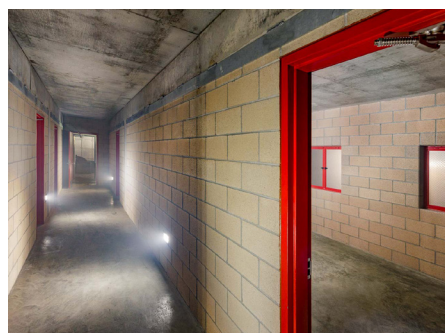
PBK

East Valley Public Safety Training Center, Yucaipa, CA

The new East Valley Public Safety Training Center is the latest addition to the fire academy at Crafton Hills College. Designed to assist students with the certification process, the facility combines a three-story commercial component and a two-story residential component into a single training structure. As a result, a wide variety of training scenarios are provided.

Building features include a ground-floor warehouse area, a residential garage, interior and exterior stairways, multiple Class B burn props, maze panels, breach props and a forcible entry door. Concrete masonry is used for all interior and exterior walls. Floors and balconies are cast-in-place concrete. High-temperature lining is used in all burn areas.

The facility is located adjacent to the fire academy and incorporates the existing water recycling system into the design. Other site features include a live fire car prop and a Class A flashover chamber with scrubber.



Official Project Name: East Valley Public Safety Training Center
Project City/State: Yucaipa, CA
Date Completed: Feb. 1, 2024
Fire Chief: Mike Alder
Project Area (sq. ft.): 6,848
Total Cost: \$7,372,009
Cost Per Square Foot: \$1,077
Architect/Firm Name: PBK
Website: pbk.com
Design Team: PBK: Kelley Needham, Principal-in-Charge; Simon Chang, Designer; Shih-Jing Yen, Project Manager; Civil: MSL Engineering; Structural: Miyamoto; Mechanical: Pocock Design Solutions; Electrical: A&F Engineering Group; Landscape: Cornerstone Studios



Official Project Name: Bartlett Fire Station 1 Headquarters

Project City/State: Bartlett, IL

Date Completed: Aug. 22, 2023

Fire Chief: William Gabrenya

Project Area (sq. ft.): 15,000

Total Cost: \$3,418,791

Cost Per Square Foot: \$227.91

Architect/Firm Name: Bartlett Fire Protection District

Website: bartlettfire.com

Design Team: Leopardo Construction, 845 Design



Bartlett Fire Station 1 Headquarters, Bartlett, IL

The Bartlett Fire Protection District (BFPD) Station 1 Headquarters underwent a comprehensive renovation in 2023, transforming bunkrooms, locker rooms, kitchen, dining spaces, dayroom, boardroom, restrooms and offices into modern, functional spaces.

Striking exterior enhancements, such as removing the dated mansard roof lines, and meticulous detailing, including panels, trim, roofing and a cantilever roof, created a refreshed and contemporary look for the facility.

The interior improvements of the project involved reconfiguring the administration area, adding a conference room and executive spaces, and upgrading systems to ensure a seamless and efficient operational environment.

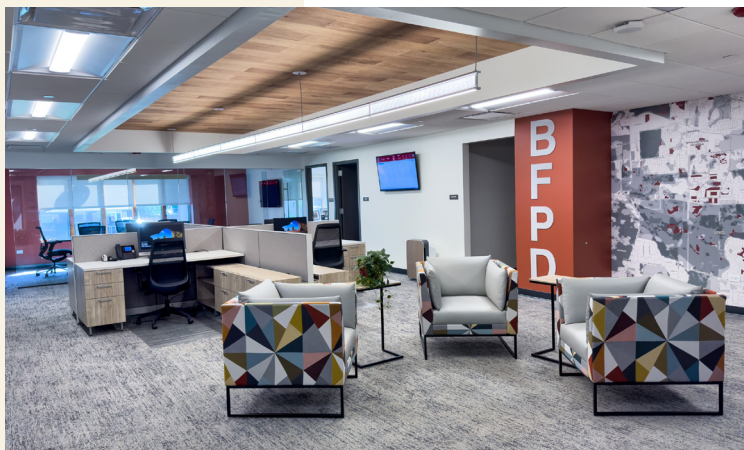
The station now offers a warm and welcoming atmosphere for first responders and the community by integrating the BFPD brand throughout, with custom linens and embroidered armchairs, among other details.

The most challenging aspect of the project was the exterior façade renovation, which aimed to modernize the aesthetic of three generations of buildings into a cohesive vision that seamlessly fits in with the adjacent residential context. The collaboration among the architects, consultants, subcontractors and the project team ensured meticulous planning, which resulted in budget savings that facilitated additional interior improvements. Regularly scheduled meetings focused on reviewing enclosure details, as a means of ensuring precision and excellence in every aspect of the renovation.



Even though Station 1 Headquarters wasn't occupied during the renovation, the project team took special care to avoid damage to existing equipment. A comprehensive walk-through with all trades and the BFPD team was conducted to tag/ID items, so they wouldn't be cut, which ensured the continued operational status of the district's emergency response infrastructure.

The project's overarching theme was to bring a modern feel to a 50-year-old structure while ensuring fiscal responsibility and meeting the district's future needs. Special care was taken to ensure the building's longevity while introducing state-of-the-art design concepts into the existing footprint.







Official Project Name: Hays Co. ESD 6 Fire Station 62

Project City/State: Hays County, TX

Date Completed: March 18, 2024

Fire Chief: Scott Collard

Project Area (sq. ft.): 6,300

Total Cost: \$2,271,258

Cost Per Square Foot: \$360.52

Architect/Firm Name: Martinez Architects

Website: martinez-architects.com

Design Team: Martinez Architects: Ricardo Martinez, John Smead; Civil: UP Engineering; M/P: DBR Engineering; Structural: Matrix



AFTER



BEFORE

Hays Co. ESD 6 Fire Station 62, Hays County, TX

The renovation of Fire Station 62 infuses life into a worn-down facility, both inside and out, despite budget constraints that required that the work be contained within the existing building footprint and without work in the apparatus bay.

On the site, drive-through bay access is provided through additional pavement, which also allows apparatus a separate drive-way from public vehicles.

The interior living areas of the facility were removed and built back for an efficient layout that provides privacy, increased staff size capacity, and renewed compliance with building, accessibility and energy codes. Utilization of pocket doors in the individual sleeping rooms ensures private, uninterrupted sleep without taking up the space that's required for a swing door. Gender-neutral, individual shower/restrooms, a walk-in pantry, a watch office and a covered outdoor patio are additional space amenities that weren't included in the existing facility's design.

In addition to lighting and signage, color and vibrant materials are used on both the exterior and interior to enhance the experience of the limited scope of work and brighter, newer station. Cool blue tones are incorporated throughout the interior to promote a calming effect, counter to the traditional red fire department colors that often are employed in firehouses.

Dormitories are located nearest to the apparatus bays to streamline emergency response times. An open-concept kitchen/dining/dayroom area helps the small facility feel larger via continuous flooring, shared natural light and raised ceilings compared with the original design.



AFTER



RENOVATIONS NOTABLE

REGAN YOUNG ENGLAND BUTERA
REFERENDUMS • ENGINEERING • ARCHITECTURE • DESIGN

456 HIGH ST. • MT. HOLLY, NJ 08060 USA
609.265.2652 • 21A100912100 • www.ryebread.com

Official Project Name: Mount Holly Fire District No. 1 Relief Firehouse
Project City/State: Mount Holly, NJ
Date Completed: June 12, 2023
Fire Chief: Thomas Mason Jr.
Project Area (sq. ft.): 23,298
Total Cost: \$7,900,000
Cost Per Square Foot: \$339
Architect/Firm Name: RYEBREAD Architects
Website: ryebread.com
Design Team: RYEBREAD Architects: Architecture; MEP: K&G; Structural: Harrison-Hamnett; Civil: Pennoni; Food Service: Taff Nash; Construction Management: Greyhawk

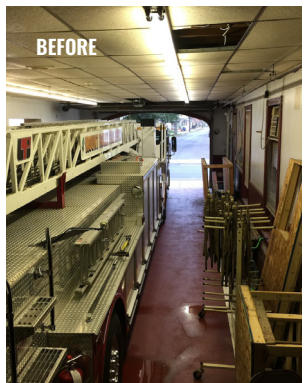
Mount Holly Fire District No. 1 Relief Firehouse, Mount Holly, NJ

Early in the 2000s, the Mount Holly Fire District (MHFD) realized that consolidation of the fire companies in town was critical for providing emergency response services to its community into the future. By consolidating the companies under one roof, the district could optimize staffing and right-size the fleet, while reducing overhead and administration.

In March 2006, the MHFD launched a project to begin the processes of programming, estimating, site selection and schematic design for a consolidated facility. By July 2012, the project team came to consensus that the facility should be located on the site of the historic Relief Firehouse. In December 2015, Mount Holly voters passed a \$7.9 million public referendum that would fund an addition, renovations, and site improvements and soft costs.

The facility, which was completed in 2023, includes a history room (which contains the original 1752 firehouse and 1880 Silsby Steamer), a training room, and conference facilities in the 1884 building and 1967 addition. A new, two-story addition houses dispatch, turnout gear storage, offices, a lounge, a gym, bunks and restrooms, all adjacent to four bays of apparatus, with adjacent decontamination, laundry and storage. Outside, the “ghost” of a removed storage appendage was designed as a memorial wall as backdrop to the flagpoles.

The fenestration on the new stair/hose tower forms an “MH” logo. On the “M” are names of the four companies that came together in this joint facility. This illuminated masonry façade signifies the collaboration and unity that was created by this building. It’s a new beginning that comes from a historic context. The “MH” now is the symbol for not just the fire district but also for the entire community, which is coming together in a transformative effort to revitalize the town.





Official Project Name: Pike Township Fire Department Decontamination and Maintenance Facility

Project City/State: Indianapolis, IN

Date Completed: Sept. 15, 2023

Fire Chief: Jeff Beam

Project Area (sq. ft.): 11,500

Total Cost: \$5,045,000

Cost Per Square Foot: \$439

Architect/Firm Name: The Etica Group

Website: eticagroup.com

Design Team: Etica Group: Architecture, Civil & Project Management; MEP: Loftus Engineering; Structural: CE Solutions

AFTER



Pike Township Fire Department Decontamination and Maintenance Facility, Indianapolis, IN

The decontamination and maintenance facility replaces an outdated facility and provides state-of-the-art, centralized decon for the department's approximate 180 first responders, which minimizes "dirty" areas at each of the individual stations. This approach provides a more efficient decon and gear-cleaning protocol for firefighters after a fire, to reduce their exposure to carcinogens. Guided by *NFPA 1851: Standard on Selection, Care, and Maintenance of Protective Ensembles for Structural Fire Fighting and Proximity Fire Fighting*, this investment is aimed at compliance with PPE-cleaning best practices, individual exposure reduction and clean-living quarters design.

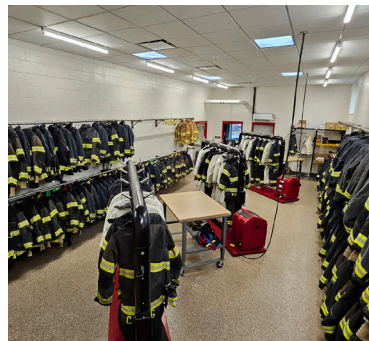
Located on the grounds of the district headquarters, the 11,500-sq.-ft. facility is separated into two distinct spaces. The first space is the maintenance area. The second space is the gear-washing/decon area.

The decon area was designed after conversations between firefighters and the design team. It provides firefighters with a healthier and more efficient way to decon, store their gear and reduce their exposure to carcinogenic substances. Multiple stations that are within the facility advance firefighters and their equipment through the decon process. The new personal area allows firefighters to remove toxic carcinogens from their body with the addition of a bank of six zero-clearance private showers. Following the decon process, a second set of personal gear is distributed to each firefighter. The dirty and clean zones have separate HVAC systems and fresh air intake to ensure a complete separation between the spaces. Surfaces that are in the facility are washable stainless steel or epoxy-sealed.

The equipment that's located in the gear-washing section of the facility comprises four turnout gear extractors, three Ram Air dryers and two SCBA decon washers.

Forty-nine hundred square feet of the new facility is dedicated to five vehicle maintenance bays, to improve the safety and work environment of the support services staff. The bays are tall enough to accommodate the clearance that's necessary for aerial ladder maintenance.

Thirty-one solar tubes provide natural light throughout the building, which decrease the need for artificial lighting while promoting a healthy work environment.



AFTER



BEFORE



Plymouth Fire Department West Plymouth Station 2, Plymouth, MA

Located in a part of the United States that has a great deal of history and tradition, Plymouth is one of the country's most notable towns. The station was designed to meet the department's and community's current and future needs. Special attention was given to meeting the needs of the firefighters.

One of the initial challenges to the project was the position of the utility lines on the existing roadway. During the building information modeling process, it was discovered that the utility line was too close to the proposed building. This proactive discovery resulted in savings of time and money.

The renovation of West Plymouth Station 2 doubled the size of the original station that was built in 1975, with the living spaces and apparatus bays of primary concern. This all was accomplished on a small lot, and the station was able to be kept operational during the construction.

The design of the dayroom/kitchen was created to give the firefighters a space to gather and decompress. Interior finishes/materials in the station were selected for their durability and warm tones, to instill more of a feeling of home than a workplace.

Other features include four 86-foot-deep, drive-through apparatus bays and a mechanical bay; offices; an exercise room; gear and laundry facilities; a fitness room; nine bunkrooms; a gender-neutral restroom; a decontamination room; and a watch room. The open-concept dayroom/kitchen provides a space to congregate.

On-site improvements included an above-ground generator, a new diesel tank, landscaping, and added personnel and community parking. Also included is an outdoor patio that has a grill for the first responders to enjoy.



RENOVATIONS NOTABLE



Official Project Name: Plymouth Fire Department West Plymouth Station 2
Project City/State: Plymouth, MA
Date Completed: July 12, 2024
Fire Chief: Neil J. Foley
Project Area (sq. ft.): 10,700
Total Cost: \$7,615,309
Cost Per Square Foot: \$712
Architect/Firm Name: Saccoccio & Associates Architects
Website: sa-architects.com

Design Team: Saccoccio & Associates Architects; Mark Saccoccio, Principal-in-Charge/Architect; Kyle Robison, Project Architect; OPM: Rick Pomroy, Pomroy Associates; Contractor: Duane Levy, Seaver Construction; MEP: Steve Karan, Building Engineering Resources; Structural: Thomas Grafe, C.A. Pretzer Associates; Civil: Jim Jackson, Pare Corp.; Landscape: Diane Soule, Diane Soule Associates



Official Project Name: San Ramon Joint Public Safety Building

Project City/State: San Ramon, CA

Date Completed: Jan. 12, 2024

Fire Chief: Frank Drayton

Project Area (sq. ft.): 79,000

Total Cost: \$31,000,000

Cost Per Square Foot: \$392.40

Architect/Firm Name:

COAR Design Group

Website: coargroup.com

Design Team: COAR Design Group:

Jeff Katz, Ryan Walker; BKF Engineers:

Patrick Chan; Elen Consulting; Anton

Nathanson; McParlane & Associates:

Doug Isaaks; ZFA Structural Engineers:

Luke Wilson



San Ramon Joint Public Safety Building, San Ramon, CA

This project for the San Ramon Valley Fire Protection District and the city of San Ramon remodels approximately 70,000 sq. ft. of existing city-owned buildings and includes the addition of a new 9,000-sq.-ft. emergency operations center (EOC) and 9-1-1 communications center. The initial phase included a detailed space needs and facility assessment for fire administration, police and emergency communications. The goal was to repurpose an existing building for the fire administration facility, renovate the existing police facility, and construct a new joint emergency operations and communications center.

Upon completion of the assessments, the project team developed detailed construction documents for the phased improvements and new construction.

One existing portion of the building (30,000 sq. ft., two stories) was upgraded and converted to accommodate the fire department administrative services executive staff, training division, EMS and fire prevention. The city police department portion of the building (40,000 sq. ft., two stories) was remodeled completely and structurally upgraded to include the addition of a new 1,300-sq.-ft. fitness center.

The new EOC was developed for both the district and the city as state-of-the-art, with associated offices, break-out rooms and technology to support the various possible emergency situations.

The second-floor 9-1-1 communications center provides space for eight dispatchers, a supervisor's office, bunkrooms, a breakroom and a server room to support the 20-plus racks of computer/radio equipment that are needed to support the call center.

Relocating fire administration to this facility allowed the district to construct a new training facility on the site of the former administrations building.

The unique collaboration that unfolded between the district and the city paved the way for the repurposing of existing city-owned buildings to create a joint public safety building that will serve the citizens of San Ramon and the areas that surround it for years to come.





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SATELLITE GOLD



Official Project Name: Central Jackson County Fire Protection District Station 6

Project City/State: Grain Valley, MO

Date Completed: Dec. 1, 2023

Fire Chief: Kirk D. Lair

Project Area (sq. ft.): 15,600

Total Cost: \$12,065,000

Cost Per Square Foot: \$773

Architect/Firm Name: sfs architecture

Website: sfsarch.com

Design Team: sfs architecture: Kwame Smith, AIA, Principal; Lindsay Tatro, AIA, Project Manager; Dirk Henke, AIA, Project Architect; Kelsey Mahoney, NCIDQ, IIDA, Interior Designer; Kevin Hartman, Interior Designer; Civil: Olsson; Structural: Bob D. Campbell & Co.; MEP/FP: PKMR Engineers; Design-Build: McCownGordon Construction



Central Jackson County Fire Protection District Station 6, Grain Valley, MO

The Central Jackson County Fire Protection District is tasked with serving more than 80,000 residents around the communities of Blue Springs, Grain Valley and Lake Tapawingo. It recently expanded its operations with the opening of a new fire station in Blue Springs.

Station 6 provides full-service fire and EMS response, technical rescue, and fire and life-safety education for the communities that it serves. It also provides fire and EMS training for members.

Dedicated to the health, safety and well-being of first responders, Station 6 embodies advances in contemporary station design. By prioritizing occupational health through strict contamination control, the facility manages exposure to harmful chemicals through careful spatial organization.

The building is organized into distinct hazard zones, which are classified by levels of carcinogen exposure. High-hazard zones of the building, including the four-bay, double-deep, drive-through apparatus bay (which accommodates heavy rescue, an SCBA room, a decontamination area and gear storage areas), are designed to contain the highest risks. Moderate-hazard transition zones function as buffers, to limit the transmission of and exposure to harmful carcinogens. Vestibules that have hand-wash sinks, walk-off mats and nearby shower rooms separate high-hazard zones

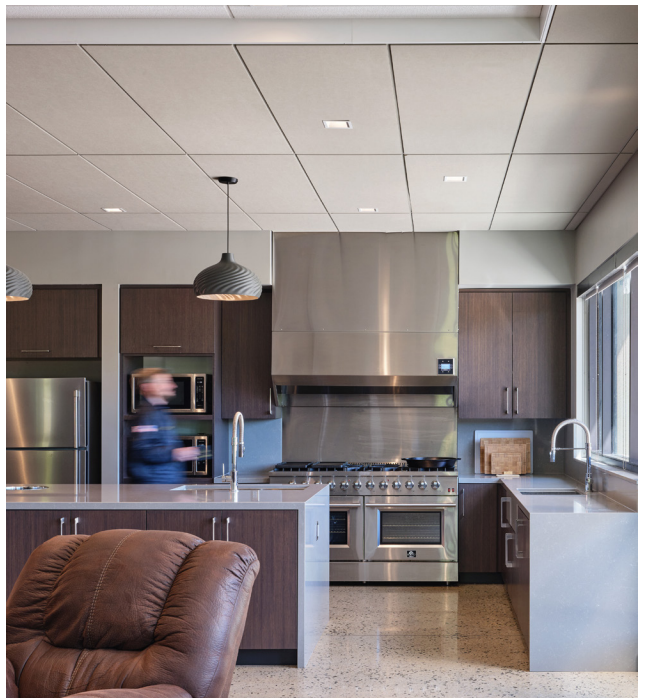




from the station's living quarters. Low-hazard zones, which contain the station's living spaces, provide a safe, 24-hour home for firefighters.

The living quarters are designed to promote member mental health and well-being. Communal dining and gathering spaces encourage fellowship, socialization and education. Privacy, reflection and sleep equity are emphasized in the inclusive restrooms, individual sleeping quarters, direct-access shift lockers and separate captain's suite.

Station 6 exemplifies the integration of modern design and occupational health principles. By the project team's implementation of careful contamination control, the Station 6 facility helps to protect firefighters from cancer and other serious illnesses that can result from occupational exposure to hazardous chemicals. The innovative approach that was applied enhances the operational efficiency of the fire station and sets a new standard for future fire station designs for the fire protection district.



SATELLITE SILVER



Official Project Name: New Braunfels Fire Station No. 7

Project City/State: New Braunfels, TX

Date Completed: May 15, 2024

Fire Chief: Ruy Lozano

Project Area (sq. ft.): 15,095

Total Cost: \$9,716,090

Cost Per Square Foot: \$644

Architect/Firm Name: BRW Architects

Website: brwarch.com/fire

Design Team: BRW Architects: Ray Holliday, AIA; Daniel Pesek, AIA; Meredith Hayford, AIA; Civil/Structural: Shaun Hanson, Nathaniel Franke, Nikolas Gomes, Daniella Benavides, Gessner Engineering; MEP: Wesley Daoust, DVO Engineering



New Braunfels Fire Station No. 7, New Braunfels, TX

Nestled on the edge of the Texas Hill Country, Fire Station No. 7 represents both tradition and innovation. The design of the station's façade features native limestone and green siding, which pay homage to the renowned hue of Texas sage plants while complementing the iconic fire station red doors and storefront. However, the building's character and purpose extend far beyond its aesthetic appeal.

Fire Station No. 7's use of the previously developed prototype efficiently optimizes a small section at the front of the city's 12-acre municipal utility complex. Surrounded by existing commercial developments, this strategic location places the station closer to Interstate 35, which ensures swift emergency responses. Medical emergencies represent 80 percent of the department's calls; therefore, the positioning of the station's medic unit near one of the nation's busiest interstate corridors is vitally important. Additionally, this location provides support for the planned fire training facility at the rear of the complex.

This sophisticated, two-story station serves as a home away from home for 13 firefighters and EMS crew members per shift. Its interior design features light-colored stone walls that match the exterior, wood acoustical ceilings and clerestory lighting. This approach creates a comfortable and inviting open-concept living area. Expansive windows that are incorporated into the watch office and the upstairs study offer excellent views of the station's front entry, which enhances the crew's experience while they write reports and complete training.

Embracing tradition, the station includes two brass fire poles within the combination stairwell/airlock spaces, which allow quick access to the bays from the second-floor bedrooms.

A private, wraparound porch that's located at the back of the station provides the perfect place for the crewmembers to decompress or to complete an outdoor workout.

To the dedicated men and women of the New Braunfels Fire Department, this Fire Station No. 7 is more than just a building; it represents the city of New Braunfels' commitment to their well-being and to the protection of the members of the community who they swore to protect.





Harris County ESD 21 Fire Station No. 3, Hockley, TX

Fire Station No. 3 exemplifies Harris County Emergency Services District 21's commitment to creating a durable, home-like and functional facility that can evolve with the needs of a rapidly growing community.

Designed to host district board meetings, the station's training room also is available for use by the public to help to foster a sense of community.

To encourage camaraderie among the crew, the kitchen, dining room and dayroom are accessible from all areas of the building. High ceilings that include clerestory windows and the visibility of natural limestone on the exterior enhance the feeling of openness and serenity.

The facility, which has a life expectancy of more than 50 years, was constructed with lasting materials and designed for easy expansion from the sleeping room wing of the station and the fourth apparatus bay.

Given its proximity to the Gulf Coast, the station features a strengthened structural system, impact-resistant windows and a full-building generator to ensure that the station remains operational during and after a hurricane.

Situated on a rural, green, 14-acre site that was rice farmland formerly, the station faced several construction challenges. Extensive drainage solutions were required because of the site's flat terrain and its history as a partially flooded rice paddy. Additionally, the absence of existing utilities necessitated the implementation of a water well, a septic system and a retention pond. These challenges required close collaboration between the design experts and the members of the civil engineering team to ensure the site's functionality for a fire station.

The thoughtful design and robust infrastructure of Fire Station No. 3 not only support the immediate needs of the community but ensure long-term resilience and adaptability. This project reflects a forward-thinking approach, integrating sustainable practices and fostering a strong sense of community, which make it a cornerstone for future developments in Harris County.



Official Project Name: Harris County ESD 21 Fire Station No. 3

Project City/State: Hockley, TX

Date Completed: May 1, 2024

Fire Chief: Christopher Reyes

Project Area (sq. ft.): 16,682

Total Cost: \$7,339,649

Cost Per Square Foot: \$439

Architect/Firm Name: BRW Architects

Website: brwarch.com/fire

Design Team: BRW Architects: Ray Holliday, AIA; Amanda Rotter, Assoc. AIA; Heather White: Civil: Kimley-Horn; Structural: Dudley Engineering; MEP: Jordan and Skala Engineers

Official Project Name: Celina Fire Station No. 3

Project City/State: Celina, TX

Date Completed: March 4, 2024

Fire Chief: Mark Metdker

Project Area (sq. ft.): 23,200

Total Cost: \$14,700,000

Cost Per Square Foot: \$633

Architect/Firm Name: HED

Website: hed.design

Design Team: HED: Barton Drake, AIA, NCARB, Principal-in-Charge; Mark Mortimer, AIA, LEED AP, Project Manager/Design Architect; Charles Reed, Project Architect; Civil: Westwood; Structural, MEP & Landscape: Half Associates; City Construction Manager: Barbara Hoskins



Celina Fire Station No. 3, Celina, TX

The city of Celina sought a design of a facility that would serve as a prototype for the development of future satellite stations. The architectural firm's design team collaborated with fire department personnel and city facilities planning staff to create a "Texas Farm House" aesthetic, the purpose of which is to reflect the residential character of the adjacent neighborhood while maintaining clear identification as a fire station. The ensuing design prioritizes functionality and comfort for firefighters.

The one-story, stone facility includes five drive-through apparatus bays, living quarters for 12 coed firefighters and two captain's quarters.

A state-of-the-art fitness center features a roll-up glass door that provides access to a wraparound patio for members to conduct outdoor workouts. Men's and women's locker rooms, which are equipped with full-size wood lockers and built-in benches, also function as storm shelters. Semiprivate bunkrooms support a culture of wellness. Clerestory-capped corridors fill the space with natural light.

The comfortable, multitiered dayroom, which includes overstuffed recliners and a surround-sound audio/video system, offers a relaxing area for staff. The spacious kitchen and dining area promote a residential feel, with access to a covered outdoor dining space amid a natural garden setting.

The station's apparatus bay includes a mechanical mezzanine for training exercises and extra equipment storage.

Sustainability and LEED principles are integrated into the facility via solar-efficient building orientation, clerestory lighting, efficient HVAC systems, LED lighting, low-flow plumbing fixtures, Energy Star-rated appliances and drought-tolerant landscaping that includes drip irrigation.

Durable finishes that were selected for comfort and maintenance include wood trusses, premium wood cabinets, quartz countertops, ceramic tile and polished concrete floors. This not only meets operational needs but also fosters a welcoming and sustainable environment for the personnel who operate out of and live in the fire station.





Allen & Hoshall
engineers-architects-surveyors

Official Project Name: Greenville Fire Station No. 2

Project City/State: Greenville, TN

Date Completed: April 4, 2023

Fire Chief: Alan Shipley

Project Area (sq. ft.): 12,700

Total Cost: \$3,925,000

Cost Per Square Foot: \$309

Architect/Firm Name: Allen & Hoshall

Website: allenhoshall.com

Design Team: Allen & Hoshall: Michel Lebel, Rick Boeving, Mark Stockman, Norman Sneed, Keith Seagraves, Tim Smeltzer, Mike Collins, Ron Thompson, Tom Johnson, Roy Lamica, Jeff Young;
Design/Construction Support: Reedy & Sykes Architecture

Greenville Fire Station No. 2, Greenville, TN

The development of the new, 12,700-sq.-ft. facility, which replaces the outdated, 50-year-old Fire Station No. 2, includes a 3,500-sq.-ft. emergency operations center (EOC), addresses modern firefighting and emergency management needs, and adheres to strict budgetary constraints.

The station's design includes a three-bay configuration. This approach provides pull-through capability, which enhances the efficiency and speed of emergency response.

The dormitory area of Fire Station No. 2, which houses 15 firefighters, includes five rooms that have three beds each. This approach was applied to ensure adequate rest and readiness for the personnel who live in the station while they are on duty.

Additionally, the facility incorporates support spaces for offices, a dayroom, and meeting areas. This strategy was applied as a means to facilitate daily operations and training activities.

Recognizing the critical need for integrated emergency management, the design of Fire Station No. 2 features an adjacent space that has a separate entry for the Office of Emergency Management (OEM). This space allows OEM personnel to operate independently yet in close coordination with the fire station, to optimize emergency response and resource allocation. Furthermore, the inclusion of an adjacent police department substation fosters a collaborative environment for public safety operations, which works to enhance the overall security infrastructure of the community.

To meet educational and training program requirements, the facility's design incorporates versatile spaces for ongoing member training and professional development. These spaces are equipped with modern technology and flexible layouts to accommodate various training scenarios, ranging from routine drills to specialized emergency response exercises.

The project's success lies in an innovative design approach and resourceful solutions that meet the town's expectations within budgetary constraints. By integrating multifunctional spaces, advanced technology and thoughtful planning, the new fire station not only enhances Greenville's emergency response capabilities but also supports the continuous education and training of its public safety personnel. This project stands as a testament to effective design in public safety infrastructure, addressing current needs while anticipating future growth.



Official Project Name: Jerome Township Fire Station 211

Project City/State: Plain City, OH

Date Completed: Oct. 26, 2023

Fire Chief: Doug Stewart

Project Area (sq. ft.): 10,041

Total Cost: \$4,273,654

Cost Per Square Foot: \$426

Architect/Firm Name: Mull & Weithman Architects

Website: mw-architects.com

Design Team: Mull & Weithman Architects: Bradley Mull, Joe Weithman, Joe Malone, Alexis Gauthier;

Mechanical/Electrical: Tim Prater, Stephen Danielson, Prater Engineering;

Civil/Structural: Christopher Fleming, Jerry Finley, Korda Nemeth Engineering;

Landscape: Phillip Moorehead, G2 Planning + Design; General Contractor: Robertson Construction Services



Jerome Township Fire Station 211, Plain City, OH

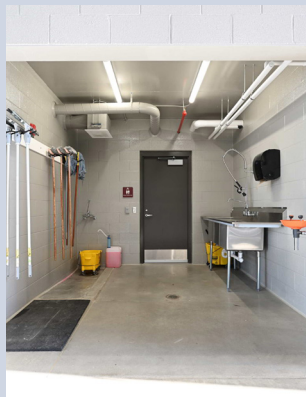
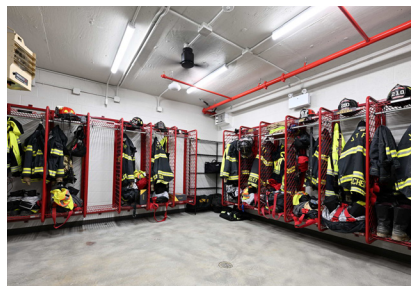
The new fire station serves the communities of Jerome Township, Millcreek Township and Jerome Village. Jerome Township is located in the southeast quadrant of Union County in an area that's experiencing explosive growth that's fueled by both industrial and residential development. Jerome Village is a 2,000-acre, master-planned community that's located in a relaxing, pastoral setting. A community center is weaved strategically into existing green spaces and the Glacier Ridge Metro Park.

Jerome Village provided partial funding for the new station. The village has rigorous design standards and an architectural review board that reviewed the appropriateness of Fire Station 211's exterior aesthetics. The board required a facility that provides best practices in fire station design, including meeting current fire service standards to serve the community.

Fire Station 211 utilizes zone design principles and provides the department with 10,041 sq. ft. of space, including two-and-a-half apparatus bays for fire and EMS apparatus, with included support spaces for gear laundry/SCBA, storage for EMS equipment and supplies, a decontamination alcove that has a separate toilet/shower for personal decontamination, and a turnout gear room. The latter also serves as the code-required, ICC 500 storm shelter.

The living quarters house six firefighters and provide straightforward access to the apparatus bays. Key features of the station include a physical fitness training room, built-in training opportunities (confined space rescue, ladder evolutions, bailing exercises, etc.), a classroom/meeting room that supports distance learning, and a watch room that provides views to both the apparatus bays and the responding apparatus apron. The station also includes space for local sheriff's deputies in the form of a reports/interview room that's directly off of the public entry.

As a means to encourage public interaction with the members of the fire department, the station includes an inviting entry tower as well as a wraparound porch that has seating for firefighters and the public to facilitate informal discussions.





Official Project Name: Plainview Fire Station 2

Project City/State: Plainview, TX

Date Completed: Aug. 27, 2023

Fire Chief: Bobby Gipson

Project Area (sq. ft.): 11,440

Total Cost: \$4,600,000

Cost Per Square Foot: \$402.10

Architect/Firm Name: Martinez Architects

Website: martinez-architects.com

Design Team: Martinez Architects:

Justin Myers, Peter Fonicello; Civil:

Maverick; MEP: DBR Engineering;

Structural: Matrix; Landscape: Evergreen

Plainview Fire Station 2, Plainview, TX

Fire Station 2 serves as a landmark to the north entrance of Plainview while providing the fire department with a combination administration/fire station. Looking toward the future, the facility is designed such that all bay “support” spaces are shifted to near the living areas, making it so that a future third full apparatus bay could be added without any interruption of service.

The parcel is bound on four sides by streets and an alleyway. With the desire for the most efficient apparatus exit and return, the design rotates the apparatus bay wing behind the perpendicularly oriented public face, which includes a paver monument area.

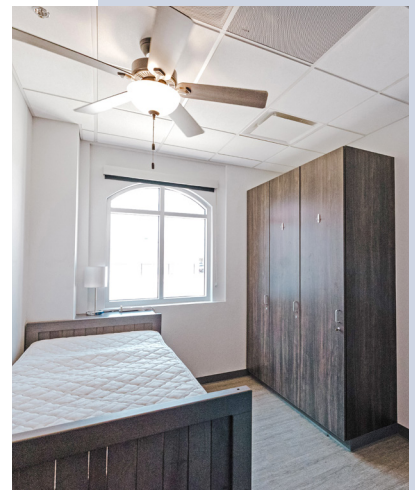
From the entry, the facility divides into two front wings—administration and fire station—with an open-concept kitchen/dining/dayroom area that’s supported by an adjacent covered outdoor patio.

The simple, three-wing layout of Fire Station 2 coordinates with a cost-effective preengineered metal building structure that accommodates both sloped roofs and parapeted low-slope roofs. The front parapet and design embrace the aesthetic of a heritage fire station to acknowledge the deep and long history of the town of Plainview and of the Plainview Fire Department.

The fitness room was a priority for the department. To keep it away from quiet office or sleeping areas, it’s placed prominently above the support gear wash and gear storage rooms, where it can share the high-roof structure of the apparatus bays, including natural daylight that enters through an arch-shaped window that’s visible from the front façade.

The enlarged exercise area allows all crew members to work out together.

The largely rock landscape of the site serves as a water-conscious example to the public in the desert of West Texas, while the brick, light stone and bright red metal panels combine to both tie in with surrounding brick structures and stand out as a proud public monument.





Official Project Name:

Godfrey Fire Protection District House 1 & Headquarters

Project City/State: Godfrey, IL

Date Completed: Feb. 1, 2024

Fire Chief: Eric Cranmer

Project Area (sq. ft.): 15,095

Total Cost: \$7,414,084

Cost Per Square Foot: \$491

Architect/Firm Name: FGM Architects

Website: fgmaarchitects.com

Design Team: FGM Architects: Joshua N. Mandell, Principal-In-Charge; Paul Luzecky, Design Principal; Brennan Hartin, Project Manager; Nick Beishir, Project Architect; Matt Rutledge, Architectural Designer; Katie Corey, Interior Designer



Godfrey Fire Protection District House 1 & Headquarters, Godfrey, IL

In 2023, the Godfrey Fire Protection District (GFPD) consolidated its emergency services and administrative functions in a new, centrally located headquarters facility to strengthen the allocation of firefighters and paramedics in emergencies, to gain needed space for vehicles and equipment and to consolidate operations.

Designed to accommodate continued regional growth and increased demand for emergency services, GFPD's new, future-ready headquarters is a prominent focal point on a main circulation route through the village of Godfrey, serving as a symbol of civic pride and public safety.

The one-story facility includes a partial mezzanine that's on the second level to accommodate five drive-through apparatus bays and ample storage space for medical supplies and firefighting equipment and gear as well as a decontamination area. Clerestory windows surround the apparatus bay as a means of infusing natural light throughout the space.

An exercise room that's located on the mezzanine level helps first responders to maintain readiness via access to a treadmill, weights and other equipment that's used for strength training and maintaining physical and mental well-being.





The facility's public entrance opens to a lobby that has comfortable seating. GFPD's proud history is captured in a display case that has memorabilia as well as in a wall graphic that features a dramatic historical photo. The "Firefighters Prayer" is displayed in the hallway that's outside of the work/living quarters.

The administrative headquarters space includes offices and open-plan workspace, an executive conference room, and a multipurpose room to accommodate training and community gatherings. Tall windows that surround the building perimeter ensure generous natural light.

The facility's well-appointed living quarters include a dayroom, which has a mix of seating, that flows into the fully equipped kitchen and dining area. An outdoor patio provides space for members to grill and relax. The station's sleep quarters feature single and dual bunkrooms that have beds, cabinet lockers, desks and bedside tables. Acoustic ceiling tiles minimize sound to ensure a restful atmosphere. GFPD branding elements are included throughout to foster pride.





Official Project Name: Williamsburg Fire Station

Project City/State: Williamsburg, VA

Date Completed: Oct. 9, 2023

Fire Chief: Larry W. Snyder Jr.

Project Area (sq. ft.): 32,000

Total Cost: \$13,900,00

Cost Per Square Foot: \$434

Architect/Firm Name: GuernseyTingle and Stewart-Cooper-Newell

Website: guernseytingle.com, scn-architects.com

Design Team: GuernseyTingle: Architect of Record; Public Safety Design Specialist: Stewart-Cooper-Newell Architects; Civil: VHB; MEP: Thompson Consulting Engineers; Structural/Building Enclosure Consulting: TAM Consultants, a Terracon Company; Design-Build Contractor: David Nice Builders



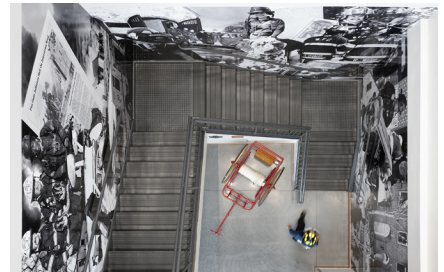
Williamsburg Fire Station, Williamsburg, VA

The Williamsburg Fire Station project was complex in that it involved constant flux throughout its planning and design—from initial studies that looked at renovation of the existing station, to several variations, including splitting the original function into two separate stations. Ultimately, the design-build team was tasked with replacing the existing station—the only one in the city—on the same site, which added to the project’s complexity, as the design team had to navigate the challenges of the tight urban site, with its difficult grade and a critical schedule. The fire department was housed temporarily in the adjacent municipal and public works buildings, with a two-bay temporary tent for apparatus storage, to carry out its operations. Furthermore, the budget faced significant constraints because of escalation and uncertainty in the construction market in the aftermath of the pandemic. All of these challenges amid leadership changes were a tall order, but the design-build team was able to deliver a successful project.

The result is a contemporary volume that draws on the colonial vocabulary of the surrounding community, with strategic placement of the program components across different floors. The combined volunteer/career station functions were placed on the first floor to accommodate quick response and to provide separation from other functions of the building. The second floor houses the administrative spaces, the city’s emergency operations center and adjacent breakout spaces, which are used for fire and EMS training as well as public education and training. It also houses the fitness room, which provides training opportunities for both the station staff and the larger city workforce.

Fire-specific training features are provided across the bays, via a training mezzanine and a variety of training props and opportunities.

The orientation of the new building was modified/reversed to provide a safer response path through the existing traffic flow.





North County Fire & Rescue Engine House #2, St. Louis, MO

Engine House #2 (EH2) of the North County Fire & Rescue Fire Protection District (NCFR) is designed to strengthen fire and emergency services throughout its predominantly African American community in north St. Louis County. It is an anchor for public safety, is accessible to all and is centrally located to optimize emergency response times.

Constructed with durable materials, EH2 is an ICC 500 storm shelter and will be a lasting public resource for the community. Its design prioritizes health and safety, with drive-through apparatus bays, a secure perimeter and contaminant-control strategies to protect the work/living quarters from the transmission of carcinogens.

NCFR merged with an adjacent municipal department in 2014 to provide faster, comprehensive service throughout the area of coverage. EH2's exterior prominently features NCFR's new logo and name, which is a symbol of neighborhood pride. The structure's angular roof echoes surrounding residential architecture, while the use of brick and limestone on the façade complements nearby commercial buildings.

The public lobby of EH2 displays a wealth of historic memorabilia that celebrates NCFR's firefighting history and community roots.

EH2's living quarters are designed to encourage relaxation, fitness and camaraderie in a professional environment. The kitchen, dayroom, bunkroom and exercise room feature an abundance of natural light and viewsheds via materials that incorporate biophilic elements and color tones, to evoke a natural, restorative environment. The dayroom is large enough to accommodate two shifts of emergency personnel but small enough for quiet conversations.

In support of its occupants' well-being, EH2 integrates ecosystem, water and energy-efficiency strategies into its daily operations. Several underground tanks and pollutants were removed during the construction process, and the compact, remediated site manages stormwater runoff. Exterior luminaire output is reduced during overnight hours to limit light shed to neighbors. Apparatus bays feature energy-efficient heating and ventilation. Clerestory windows maximize natural light.



VOLUNTEER/COMBINATION
BRONZE



fgma
FGMARCHITECTS

Official Project Name: North County Fire & Rescue Engine House #2
Project City/State: St. Louis, MO
Date Completed: Dec. 4, 2023
Fire Chief: Keith Goldstein
Project Area (sq. ft.): 8,600
Total Cost: \$4,210,218
Cost Per Square Foot: \$490
Architect/Firm Name: FGM Architects
Website: fgmaarchitects.com
Design Team: FGM Architects: Joshua N. Mandell, Principal-in-Charge; Paul Luzecky, Design Principal; Brennan Hartin, Project Manager; Danny Matchett, Project Architect; Jenna Rehkemper, Architectural Designer; Katie Corey, Interior Designer





Official Project Name: Brazoria County ESD No. 3 Fire & EMS Facility

Project City/State: Iowa Colony, TX

Date Completed: Aug. 1, 2023

Fire Chief: Josh Walters

Project Area (sq. ft.): 12,486

Total Cost: \$6,356,781

Cost Per Square Foot: \$509

Architect/Firm Name: Slattery Tackett Architects

Website: slatterytackett.com

Design Team: Slattery Tackett

Architects: David Slattery, Principal;

Troy Grant, Project Designer; Structural:

Pinnacle Structural Engineers; MEP:

T&D Engineers; Civil & Landscape: Terra

Associates (Bowman); Construction

Manager: Durotech



Brazoria County ESD No. 3 Fire & EMS Facility, Iowa Colony, TX

The Brazoria County Emergency Services District No. 3 (BCESD3) Fire & EMS Facility in Iowa Colony represents a significant advancement in emergency response capabilities for the rapidly expanding local community.

Spanning nearly 12,500 sq. ft. on a 1.56-acre plot, the facility's design prioritizes efficiency and functionality to ensure quick response times. The station's layout incorporates three pull-through apparatus bays and completely separated living quarters for BCESD3 EMS and Iowa Colony Volunteer Fire Department personnel. This separation fosters a collaborative and secure environment for each department while ensuring that emergency response times are minimized. The living quarters feature sleeping areas, a communal kitchen and dayroom, ample storage spaces, shared staff workspaces and other amenities.

Strategically positioned adjacent to Iowa Colony's new City Hall and police department, the facility forms part of a centralized hub for civic and emergency services. This proximity to other essential municipal buildings enhances interagency coordination and community service delivery.

The use of king-size brick veneer, cement plaster and concrete masonry unit veneer emphasizes durability and practicality to meet the demands of a high-activity emergency services station. The building design also adheres to specific Texas Department of Insurance (TDI) windstorm requirements, given the facility's proximity to the Gulf Coast.

The steel-framed station was designed to remain operational during severe storms and hurricanes, employing the use of impact-resistant windows and doors to protect against high wind speeds and windborne debris that typically is associated with designated catastrophe areas.

This new fire and EMS facility underscores BCESD3's commitment to enhancing public safety infrastructure in Iowa Colony and its surrounding areas. The thoughtful design and strategic location aim to improve emergency response capabilities and foster collaboration between different emergency service providers, ultimately benefiting the growing population of Brazoria County.





Columbus Fire Department Headquarters + Station 1, Columbus, NE

The design team engaged city and fire department leadership to define the operational and functional needs for a new facility to replace the downtown headquarters station. The design is tailored carefully around the joint use of the facility by Columbus Fire and Rescue and the Rural Fire District to house career and volunteer fire crews and equipment.

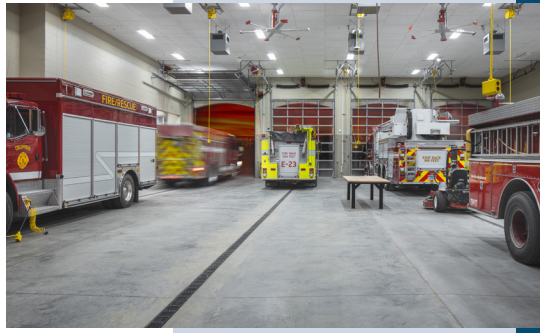
The 28,675-sq.-ft., two-story design includes eight bays for apparatus ranging from ambulances to aerials. The residential area provides bunks for eight, a kitchen, a dining room, a dayroom, a fitness area, a decontamination area and administrative spaces. The lobby has ample display cases to showcase the department's traditions and history. Facility security and access for different levels of staff (career and volunteers) and visitors was planned carefully.

Having a decon protocol that was intuitive was important to the department so that the crews could walk easily through the process of turnout gear decon and storage to personnel decon with uniform laundry and showering. Pass-through cubbies for shower supplies and an extra set of clothes were provided as part of this process.

In-station training spaces include a 3,500-sq.-ft. classroom that accommodates 100 attendees. This area also is made available for community use. A mezzanine space that overlooks the apparatus bays provides multiple training opportunities, including confined space, rappelling, laddering and a hose tower.

Despite the fact that the size and shape of the site presented many challenges, the design team maximized every square inch to ensure that the department's needs were met. The orientation of the building allows for drive-through access and provides separate parking for staff and visitors. A screened-in patio space provides a private area for crews to unwind.

The facility advances the fire department's goals and reflects several innovative design strategies regarding turnout efficiency, in-station training, after-event decon processes and protocols, and long-term station performance.



Official Project Name: Columbus Fire Department Headquarters + Station 1
Project City/State: Columbus, NE
Date Completed: May 18, 2020
Fire Chief: Ryan Gray
Project Area (sq. ft.): 28,675
Total Cost: \$7,400,000
Cost Per Square Foot: \$258
Architect/Firm Name: WSKF Architects
Website: wskfarch.com
Design Team: WSKF Architects: Rick Kuhl, Architect of Record/Principal Architect; Dalyn Novak, Project Manager; PKMR Engineers: William Kent, Mechanical; Mike Raaf, Electrical/Project Manager; Structural: Chris Boos, Bob D. Campbell & Co.; Civil: Keith Gilmore, Gilmore & Associates



Official Project Name: Fort Bend Co. ESD 7 Station #51

Project City/State: Fresno, TX

Date Completed: Dec. 20, 2023

Fire Chief: Anthony Bates

Project Area (sq. ft.): 11,466

Total Cost: \$6,161,109

Cost Per Square Foot: \$537.34

Architect/Firm Name: Martinez Architects

Website: martinez-architects.com

Design Team: Martinez Architects: Ricardo Martinez, John Smead; Civil: S&G Engineering; Mechanical/Plumbing: LTY Engineers; Structural: Matrix; Landscape: Evergreen



Fort Bend Co. ESD 7 Station #51, Fresno, TX

Station 51 is the first fire station for Fresno Fire and Rescue that's designed to modern emergency response facility standards. The building also houses administrative offices and a board room for the taxing & funding entity, Fort Bend Co. ESD 7. The station's efficient design layout and aesthetic is the result of a process that found opportunities when faced with challenges that were related to budget, regulatory agencies and space constraints.

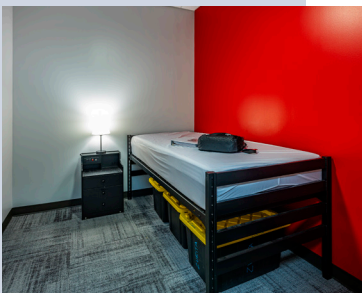
Stringent exterior design guidelines that were enforced by the homeowners association and the municipal utility district were adhered to while maintaining an economical preengineered metal building structure by cladding the shell with brick and corrugated metal panels. Multiple roof types tie the façade to the neighboring residential areas while setting it apart as a community/civic facility.

The station layout focuses on emergency response times, quality sleep, collaborative open spaces and overall cost efficiency. Three distinct plan areas—public administration/meeting, common living and private dormitory areas—are stacked in plan from public entry to back door, and all three areas provide quick, direct access to both the apparatus bays and the oversize, covered, outdoor patio, which is oriented to the east for comfortable use in the afternoon and evening hours. The fitness area is buffered from the sleeping areas by the restroom and storage space.

One bay is lengthened to help to narrow the station footprint to fit apparatus-radiused drive-ways within the unique triangular-shaped site, while still providing adequate bay space for the needed apparatus. Additionally, Texas Department of Transportation road changes during the design process required further narrowing of the building layout and site development.

Additional features include:

- Lockers placed in hallway reduce building area and allow uninterrupted sleep during shift change.
- Alternative pavement for overflow parking.
- Bi-fold bay doors.
- Shift pantries are tucked in an alcove to allow flow in open-concept kitchen/dining area.





H 2 architects + engineers
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Massapequa Fire District Park House Station, Massapequa, NY

The Massapequa Fire District Board of Commissioners spent multiple years evaluating its existing facilities to determine the best course of action for its existing Park House Station. The station, which was built in 1953 and saw multiple additions over the years, wasn't compliant with current building codes nor was it well suited for modern firefighting best practices and regulations, including preventing carcinogenic cross-contamination. The design team reviewed the feasibility of renovation but found that renovations would inhibit the district from catering to the community's growing needs and the all-volunteer fire and combination rescue companies that serve it. The design team provided temporary power and critical infrastructure to maintain the operation of an existing 100-foot radio tower during demolition and construction.

The new station comprises seven bays, including one drive-through; integrated hands-on training for confined space, bailout and standpipe; decontamination spaces that incorporate a focus on Hot Zone design and responder flow; and company offices, fitness facilities, a training room, a rehab support closet and a large multipurpose room that has a folding partition. The district required the hose drying tower from the original building to be adapted and reincorporated as a prominent feature of the design.

With programmatic requirements nearly doubling the existing square footage, the design team responded to the surrounding residential homes and community requests by designing the station to fit into a form that's suited for the local streetscape. The exterior façade blends the style of a traditional masonry fire station with softer residential elements, such as fiber cement siding, colonial-style windows and shingle roofs. A split-level second floor aids in reducing the overall building height and doubles as an outdoor wellness patio. False mansard roofs conceal commercial-size mechanical equipment from view on the flat roof areas and eliminate the need for ground-level equipment.



MSA DESIGN

Official Project Name: Miami Township Administration Building & Fire HQ Station 81

Project City/State: Yellow Springs, OH

Date Completed: Nov. 1, 2020

Fire Chief: Denny Powell

Project Area (sq. ft.): 17,500

Total Cost: \$5,000,000

Cost Per Square Foot: \$285.71

Architect/Firm Name: MSA Design

Website: msaarch.com

Design Team: MSA Design: Architecture; Civil & Landscape: The Kleingers Group; MEP: KLH Engineers; Structural: Schaefer; Landscape: Yellow Springs Design



Miami Township Administration Building & Fire HQ Station 81, Yellow Springs, OH

Miami Township in Greene County, OH, worked out of a small fire station that was in downtown Yellow Springs that was built in the 1950s and modified over the years but didn't have room to grow or modernize in a way that was needed desperately. The design team worked with the township to design a station that would be scaled to the neighborhood but could be viewed as a source of civic pride. The resulting 17,500-sq.-ft, brick fire station has a broad, standing-seam, metal roof that has deep eaves and decorative brackets to relate to the residential community into which the station was built.

The facility includes five apparatus bays, a training mezzanine, six bunkrooms, living quarters, office space, township administration offices and a large training room that doubles as a township trustee meeting room.

