

CMU

PROFILES IN ARCHITECTURE

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“Keep our children safe
and sound.
Build our schools with
concrete masonry.”



Arleta High School
Photo: © Frank Domin, Domin Photography





Photography: Cristian Costea, Costea Photography

CUYAMACA COLLEGE STUDENT CENTER

EL CAJON, CALIFORNIA

ARCHITECT:

LPA, Inc.

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Irvine, CA 92617

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Principal Architect

Jim Raver

Project Architect

STRUCTURAL ENGINEER:

LPA, Inc.

GENERAL CONTRACTOR:

Rudolph & Sletten, Inc.

MASONRY CONTRACTOR:

Dittmann Masonry, Inc.

BLOCK PRODUCERS:

RCP Block & Brick, Inc.

ORCO Block Company, Inc.

OWNER:

Grossmont-Cuyamaca Community College District

Located across from the new science and technology building, the student center fronts a student plaza. The opportunity existed to connect this active outdoor space with the passive setting of the forested building site. Extending the student plaza through the student center reinforces an existing site connection between science and nature. Building forms and surfaces reflect spiral and fractal patterns found in both science and nature. Due to the slope of the site, the extended plaza level creates an elevated viewing deck providing outdoor spaces directly among the treetops. Transparent planes both vertically and horizontally allow trees and passing clouds to visually complete this interior space. In the evening hours the building becomes a beacon of light at the heart of the campus. Concrete masonry units were the appropriate material to allow the building to sit in the site, retaining earth on one end and creating a base to the structure that grows directly from the site on the other.

The large assembly spaces on the upper level are located under a soaring tilted roof plane. This main design feature functions as a filter of natural light, deflector of on-site breezes and a collector of rainwater.

Architect's Commentary: The new 40,000 square-foot student center creates a centralized destination on the Cuyamaca College campus for informal student activity. The two-story structure provides additional student service amenities essential to completing the campus experience at Cuyamaca College. The program spaces include: a food court, dining facilities, meeting rooms, bookstore, health services, student lounge, club rooms for student government and student affairs. The sloping building site is centrally located on campus within an existing forested open space.



CLOVERDALE FIRE DISTRICT HEADQUARTERS STATION

CLOVERDALE, CALIFORNIA

ARCHITECT:

ArchilOGIX

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Santa Rosa, CA 95404

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ZFA Structural Engineers

GENERAL CONTRACTOR:

Ridgeview Builders

MASONRY CONTRACTOR:

Mendocino Masonry

BLOCK PRODUCER:

Calstone Company

OWNER:

Cloverdale Fire Protection District

downtown. The project was completed as a Joint Powers Agreement between the City of Cloverdale and the Cloverdale Fire Protection District.

Arranged around a central courtyard, both public and living spaces face outward, increasing a feeling of accessibility and transparency. The project design incorporated sustainable features that would allow natural day lighting to penetrate interior spaces, as well as use recycled materials wherever possible. Due to the nature of the use, durability was a design issue for the buildings, and materials were chosen for their ability to stand up to this use, as well as a desire to create a 50-year structure that would require low maintenance. With that in mind, highly durable exterior finish materials were used incorporating split faced concrete masonry units (CMUs) for the drying/training tower and split faced CMUs veneer and stucco as an exterior finish system for the building. It is our experience in working on many public safety projects throughout the state that these materials have an extremely high durability and low maintenance track record, while giving great flexibility in creating exceptional design.

Architect's Commentary: The project consisted of a 16,000 S.F. replacement headquarters for the fire district, which includes administrative offices, a training/community room, living quarters for on-duty firefighters, and a 4-bay/8 truck apparatus bay with operational support spaces. The 1.5 acre site includes a hose drying/training tower, staff parking and emergency support equipment and refueling. The design of the fire station and offices reflects the City of Cloverdale's desire to bring all public spaces to the street in order to provide easy pedestrian access to this essential service facility, and to use the exterior design configuration to reinforce the public sidewalks within the



Photography: Kevin Schultz, Shue Photography



ARLETA HIGH SCHOOL

ARLETA, CALIFORNIA

ARCHITECT:

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Irvine, CA 92612

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GENERAL CONTRACTOR:

Tudor-Saliba Corporation

MASONRY CONTRACTOR:

R & R Masonry, Inc.

BLOCK PRODUCER:

Angelus Block Company, Inc.

OWNER:

Los Angeles Unified School District

Architect's Commentary: The Los Angeles Unified School District is completing a major construction program to provide new schools in local neighborhoods, reducing the need for year-round calendars. Arleta High School is one of the first of these completely new facilities and is located in the San Fernando Valley region. Unlike designing schools in suburban settings, this new campus is an in-fill project located on a severely restricted site within the existing community fabric. Traditionally, a high school project is located on 40 acres; Arleta High School is situated on 12.5 acres.

This comprehensive high school provides 1,900 seats for local students. The program includes 180,000 square-feet of academic space, athletic/fitness facilities and parking for students and staff, all of which require the majority of the project site.

The finished campus is a three-building arrangement encompassing a central landscaped courtyard, which provides a communal focus and a central space for student socializing. The second-story Library opens to the north with a sweeping array of windows and views to the mountains. A 750-seat auditorium provides a community amenity and showcase for student presentations and events. Parking is provided in the subterranean garage located beneath the classroom and gymnasium structures. At the core of the campus, the courtyard links the various buildings and provides a landscaped environment for all users.

Long-term durability is a primary concern in the design of public schools and plays a critical role in the selection of construction materials. The selection of concrete masonry units provided the durability, range of colors and finishes that provided tremendous flexibility in development of the architecture. In several of the building areas, the masonry envelope provides interior finishes, as well as the exterior wall. A beneficial by-product of using concrete masonry is a reduction in the quantity of interior furring and finish materials.

The school participated in the District's pilot California High Performance Schools (CHPS) Program, tracking credits and developing "Lessons Learned" for the subsequent design phases.

On a recent post-occupancy tour, the use of concrete masonry and solid glass block has proven to be a durable, cost-effective selection providing richness and architectural interest to the campus, while integrating into an existing neighborhood.



Photography: ©Frank Domin, Domin Photography



CITY OF SACRAMENTO 911 DISPATCH AND TRAINING FACILITY

SACRAMENTO, CALIFORNIA

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Buehler & Buehler Structural Engineers

GENERAL CONTRACTOR:

BRCO Constructors, Inc.

MASONRY CONTRACTOR:

Townsend & Schmidt Masonry

BLOCK PRODUCER:

Trenwyth (a subsidiary of Oldcastle APG West, Inc.)

OWNER:

City of Sacramento Public Works

Architect's Commentary: The City of Sacramento's objectives for this project were to design a state-of-the-art facility with a high level of reliability, providing a pleasant working environment to help reduce a high staff turnover rate.

Some of the challenges of this project were to design a building that would be flexible to accommodate future growth; incorporate energy conservation measures to achieve performance 10% better than Title 24.

The design team focused on creating an interior space that offsets the high stress mission of an emergency communications facility. This was achieved by designing a high security shelter that envelopes an efficient plan and allows daylight to enter the interior spaces.

The building is organized around a series of courtyards. These glass-lined courtyards allow natural light to permeate the building and provide a much-needed visual connection from indoor spaces to the outdoors and nature. The courtyards also provide protected outdoor space for staff.

A large 10,000 square-foot, communications room provides a work environment that achieves both comfort and functionality for call takers and dispatchers. An under floor air distribution system provides airflow controls at each individual workstation. The ceiling feature is a unique design that serves to evenly disburse light throughout the space and to provide acoustic control.

The secure envelope surrounding the building is fortified with clear sealed textured concrete masonry bearing walls and a monumental ground face concrete masonry block wall that signifies strength and permanence. These walls are punctuated with tall, gracefully arching glass towers at the public entry and staff entry. These entry portals are secure and serve as a gesture of openness to the public through a façade that would otherwise be austere. Throughout the night these glass towers become beacons of light, reminding the surrounding neighborhood of the 24-hour "protect and serve" nature of the facility.



Photography: ©2006Steve Whittaker, Whittaker Photography



Photography: Sean L. Coulter, AIA, LEED® AP©

UNLV TROPICANA PARKING STRUCTURE

LAS VEGAS, NEVADA

ARCHITECT:

Pugsley . Simpson . Coulter . Architects

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Principal in Charge

Robert Filary, AIA

Design Architect

STRUCTURAL ENGINEER:

Desman Associates

GENERAL CONTRACTOR:

Martin Harris Construction

MASONRY CONTRACTOR:

Ramco Masonry, Inc.

BLOCK PRODUCER:

CEMEX

OWNER:

University of Nevada Las Vegas (UNLV)

Architect's Commentary: The Tropicana Parking Garage design is a clean and simple solution that respects the University's desire for a strong, yet respectful architectural image. The project consists of a four-level cast-in-place; post-tensioned parking structure that is four bays wide, 321,000 square feet, and accommodates 1012 spaces. Long span construction has been incorporated to eliminate interior columns in the typical parking bay. The overall design is efficient and accommodates smooth traffic flow, and the double ramping system is capable of exiting the entire facility in 30 minutes. The foot print of the garage has taken into consideration the future Phase II parking deck expansion to the south and the potential transit center to the north.

Given the site's prominent exposure to Tropicana Avenue, UNLV's Thomas & Mack Center, and view from the

McCarran International Airport exiting, there will be a vast number of users that are exposed to this parking structure. Therefore, careful consideration had to be given to the material selection. In order to meet a tight budget and still provide quality material finishes, the solution was to create a simple elevation with neutral colors, subtle material and texture changes that are appropriate for the context. Honed concrete masonry units that match adjacent buildings were used at the base to help anchor the building to the site. CMU also provides a visual and textural change at the pedestrian level. The use of concrete masonry units, in-lieu of cast-in-place concrete, further allows for easily modified knock-out panels for the future garage access and expansion of Phase II. Above the CMU base is a security grill that adds another layer of texture and movement to the overall elevations. CMU was extended into the pedestrian site elements, where we used the same honed concrete masonry units for columns at the custom-designed bus canopy.

The cast-in-place concrete perimeter walls have an integral color concrete mix. The integral colored concrete creates the neutral background for the parking structure, which allows for a clear identification of the circulation towers. The circulation towers are articulated with honed concrete masonry units and metal panel that help break down the scale of the building and provides a clear circulation icon. Because the circulation towers are stiff elements compared to the movement of the parking garage structure, the use of load bearing CMU allowed us to structurally isolate the towers from the concrete parking structure. By using load bearing CMU at the circulation towers, we were able to treat this as an independent form and meet an aggressive construction schedule since the towers could be built independently and ahead of the rest of the concrete structure. The ability to combine structure with the finished exterior structure was also an overriding factor for the use of CMU, and allowed for the project to stay under budget.

The design incorporates a warm palette that is appropriate for the site's context, climate and urban setting. In all of our material selections, we have considered the need for ease of maintenance, economy and long-term durability.



BACHELOR ENLISTED QUARTERS FACILITY P-015

CAMP PENDLETON, CALIFORNIA

ARCHITECT:
cass | sowatsky | chapman + associates
3569 Fifth Avenue
San Diego, CA 92103

Wyatt D. Chapman, AIA
Principal

STRUCTURAL ENGINEER:
SMR-ISD Structural Engineers
GENERAL CONTRACTOR:
Harper Construction Company
MASONRY CONTRACTOR:
Frazier Masonry Corporation
BLOCK PRODUCER:
ORCO Block Company, Inc.
OWNER:
NAVFAC Southwest

Architect's Commentary: Bachelor Enlisted Quarters (BEQ) Facility P-015 is a four-story, reinforced concrete masonry building designed to house 340 single Marines in 170 double rooms. The project also includes a single story concrete masonry Activity Building adjacent to the BEQ.

The design/build project is the first of a multi-billion dollar Marine Corps initiative to replace outdated BEQs with comfortable, modern barracks, so that single Marines may enjoy a living environment that is comparable to that enjoyed by single people living in college dormitories or in apartments in the private sector.

The primary challenge for the design/build team was to develop a design to complement existing buildings on

the base, while defining a new type of facility, which not only evokes the sense of a college campus with its aesthetics and functionality, but which is also durable, economical and sustainable.

The solution was to rely heavily on the use of concrete masonry, which resulted in structurally sound seismic buildings that are aesthetically pleasing. The basic color of CMU is lighter than that used on the existing buildings, which evokes a sense of modernism, while maintaining the integrity of the original base architecture. Concrete masonry units manufactured in two different accent colors were added to provide relief to the critical massing and make the structures seem smaller and more inviting.

To provide further visual interest, the main entrance of the building was accented with a wide walkway paved with colored concrete. This and other concrete walkways were added to the landscape design as a way to create a sense of community and connectivity with the rest of the base.

The Marine Corps has officially deemed this design its "Best of Breed," because it is a prototype design that establishes the direction for the design of Marine Corps dormitories of the future.



Photography: Pable Mason, Pablo Mason Photography



LAS VEGAS DAY SCHOOL

LAS VEGAS, NEVADA

ARCHITECTS:

Pugsley . Simpson . Coulter . Architects
2480 E. Tompkins Avenue, Suite 222
Las Vegas, NV 89121

Sean Coulter, AIA, LEED® AP
Principal

STRUCTURAL ENGINEER:

Mendenhall Smith

GENERAL CONTRACTOR:

Boyd Martin Construction

MASONRY CONTRACTOR:

Frazier Masonry

BLOCK PRODUCER:

Cind-R-Lite Block Company, Inc.

OWNER:

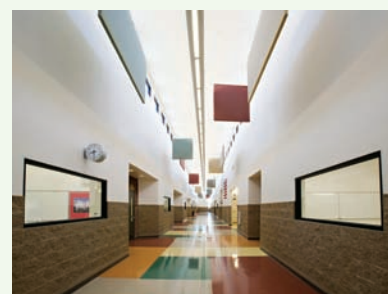
Neil Daseler, Director

Architect's Commentary: The Las Vegas Day School was founded in Las Vegas in 1961, becoming the first non-sectarian, non-denominational private school established in the State of Nevada. Based on enrollment growth projections, Pugsley . Simpson . Coulter . Architects was hired to develop a master plan to completely reorganize the campus over the course of several years. The client insisted that the construction not interrupt the day-to-day operations of the school. This resulted in a master plan that placed the new buildings on vacant land, located to the east of the existing school. The new construction did not interrupt operations of the existing school. As the school population continues to increase, existing buildings will be removed and replaced with buildings that provide greater functionality.

Beyond the master plan, Pugsley . Simpson . Coulter . Architects provided full programming, design, construction documents, and construction administration services for all the new buildings located on the campus.

The overall design concept for the school was to create schools within a school. Each school has its own design identity, but still remains a part of the overall campus design. Each level of the school (Pre-School/Kindergarten, Elementary, Middle) is identified by an iconic tower signaling the entry point to each grade level. Each building is centered around a private courtyard allowing for potential outdoor teaching space, as well as individual playground areas. The Kinderschool was the first of five (5) phases, followed by the Elementary, Middle School and soon to be realized Gymnasium.

The use of concrete masonry units was essential to the design success of the school. Integral colored split-face and single-score units were used to not only provide texture to large walls, but to visually break up the high volume spaces and reduce the impact of potential graffiti. The ability to combine structure with the finished exterior surface was an overriding factor for the use of CMU, and allowed the project to stay under budget. In addition, CMU provided structural flexibility that allowed for exceptional day lighting techniques to bring natural light into the classrooms, thus reducing energy costs. Because of its durability, the design team also used CMU on the interior at service desk locations in the library and as a wainscot in the hallways.



Photography: Sean L. Coulter, AIA, LEED® AP©

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SAN LEANDRO FAMILY AQUATIC CENTER

SAN LEANDRO, CALIFORNIA

ARCHITECTS:
GLASS ARCHITECTS
 200 E Street
 Santa Rosa, CA 95404

Eric M. Glass, AIA
Principal

STRUCTURAL ENGINEER:
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GENERAL CONTRACTOR:
 Sausal Corporation
MASONRY CONTRACTOR:
 John Jackson Masonry
BLOCK PRODUCER:
 Basalite Concrete Products, LLC
OWNER:
 City of San Leandro

Architect's Commentary: The new Family Aquatic Center provides a strong community resource and public identity with a soaring entry canopy, unique detailing and a glassy entry. The exterior design incorporates warm, graffiti resistant, earth tone walls, teal green standing seam metal roofing, blue-green glass, and unique building signage. Exposed interior concrete masonry walls in vibrant accent colors enliven and excite the public spaces.

Functional planning maximizes efficiency and functionality while conforming to the modest project budget. Special attention was paid to efficiency in the staffing and supervision requirements of a community aquatic center. The Lobby / Reception area, as well

as the Lifeguard and Aquatic Supervisor Office, are designed to provide ease of supervision, visual control, communication and accessibility. The swimming pool is designed with multiple activity areas to promote maximum utilization, while minimizing the lifeguard staff necessary to fully guard the facility.

Outdoor features include a zero-depth entry pool with children's play apparatus and interactive water features; a lap pool for swimming, water games, lessons and other recreational activities; a 120-foot water slide and splash pool; interactive "spray" ground; shaded picnic areas and 11,000 square feet of lawn area. The project design also accommodates a future 25-yard, 25-meter competition pool.

The Family Aquatic Center was conceived and designed with a high level of environmental awareness. The project incorporates cost effective and appropriate sustainable building practices, and achieves a high level of energy efficiency through the use of natural daylighting throughout the facility; energy efficient pool heaters, domestic water heaters, light fixtures, and space conditioning equipment all with direct digital controls; thermal pool covers; low water use plumbing fixtures; and water efficient, bay area-friendly, landscaping. The buildings' load-bearing masonry walls are regionally harvested and manufactured with high recycled material content; the exposed interior masonry walls are cost effective, low maintenance and extremely durable.



Photography: Lenny Siegal, Lenny Siegal Photographic



COASTAL GATEWAY BUILDING

PORT SAN LUIS, CALIFORNIA

ARCHITECT:

RRM Design Group

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Principal

Jim Duffy AIA, NCARB, LEED® AP

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Humberto Norman

Designer/Job Captain

STRUCTURAL ENGINEER:

RLA Engineering

GENERAL CONTRACTOR:

Santa Margarita Construction Corp.

MASONRY CONTRACTOR:

Curt J. Bailey Masonry, Inc.

BLOCK PRODUCER:

Air Vol Block, Inc.

OWNER:

Port San Luis Harbor District

Architect's Commentary: The Port San Luis Harbor District commissioned RRM Design Group to design the new Coastal Gateway Building to provide services for year-round recreational boating, water sports, commercial fishing, and RV camping. The 2,470 square-foot, two-story building has public restrooms, showers and a laundry facility on the first floor. The second floor, which has a large multi-purpose room and kitchenette, is used by the Harbor Commission as a meeting space. The multi-purpose room has a high tongue and groove ceiling with exposed

wood beam framing. Large double-hung windows were strategically located to capture the magnificent 180° view of the harbor, Harford Pier and San Luis Obispo Bay. A wrap-around balcony also makes this second floor space a desirable rental for wedding receptions, business meetings and special events.

With the project located in a coastal environment, the design team selected cost effective, durable and low maintenance materials for the building envelope. Exposed split face concrete masonry was used for the building and site walls, which were supplied by a local masonry company. Cement fiber siding, paneling, planking and railing were chosen for their longevity in a marine environment and attractive wood-like appearance. High performance materials such as the copper flashing, vinyl clad windows, fiberglass reinforced doors, and energy-star rated concrete roofing tiles completed the building exterior.

The project was designed to minimize greenhouse gas emissions and water usage. Water efficient plumbing fixtures and energy efficient light fixtures were specified to keep operational costs as low as possible. To keep the multi-purpose room cool during the summer, natural ventilation is achieved with operable windows and ceiling fans.

The public plaza area immediately adjacent to the Coastal Gateway Building was designed to incorporate curvilinear masonry site and seat walls. Port San Luis is a natural, south facing harbor that has been a working port since 1873. To honor its history, RRM designed interpretive signage and exhibits for the plaza that illustrate the rich history of the harbor, commercial fishing and the Chumash Indians.

Funding for the Coastal Gateway project was provided by the California Department of Boating and Waterways, California Coastal Conservancy and Port San Luis Harbor District.



Photography: Candice M. Wong, RRM Design Group
Tile Artist: Michael Laboon

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THE CLOVIS NORTH EDUCATIONAL CENTER

FRESNO, CALIFORNIA

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Principal-in-Charge, Project Architect

Michael K. Fennacy, AIA
Associate, Project Manager

STRUCTURAL ENGINEER:

Buehler and Buehler Structural Engineers

CONSTRUCTION MANAGER:

Harris Construction Co., Inc.

MASONRY CONTRACTOR:

Bratton Masonry, Inc., and O'Neal Masonry Partners

BLOCK PRODUCER:

Blocklite (a subsidiary of Basalite Concrete Products, Inc.)

OWNER:

Clovis Unified School District

Architect's Commentary: The \$130 million, 96-acre comprehensive Clovis North Educational Center includes the new 2,700 student Clovis North High School; 1,400 student Granite Ridge Intermediate School; a full complement of athletic and recreation Facilities; maintenance and operational support Facilities; and a District-Wide Performing Arts Center. The Center incorporates the evolution of planning concepts from two previous Educational Centers built in the Clovis Unified School District.

A majority of the academic programs for both the Intermediate and High Schools are housed in one

400,000 square-foot building. One of the most significant attributes of an Educational Center is the opportunity for "shared space." The shared library media center, lecture hall, student services, central administration, individual schools' administration, and vocational training labs are centralized, providing easy access for the students, and easy, but controlled, public access. A Central Kitchen facility, housed in the Multi-Purpose Building, is designed with separate multi-purpose rooms for the high school and intermediate school campuses.

The Amphitheaters and Student Common areas of each campus serve as the visual and functional core for each school. The Amphitheaters provide outdoor gathering places where the total student body for each school can be brought together.

The Center is a high performance, energy efficient designed school. The Center includes design concepts such as reducing heat-island effect, using agricultural water for irrigation, utilization of 'day-lighting' and 'view opportunities' in every classroom, highly insulated building envelopes, high performance light and high efficiency mechanical systems. These efforts resulted in the Center receiving over \$2,000,000 in state energy grants and utility company energy rebates.

Concrete masonry units were used as bearing wall structural elements at building areas with the potential high abuse. These buildings included the Student Lockers/Showers, Student Toilets, Gymnasiums, Vocational and Applied Arts Labs, Kitchen/Food Service, Maintenance, Central Plant and Electrical Service Sub-Stations. The different colors and face shell textures were used in an organized pattern of texture, reveals and shadows to bring a more human-related scale to some very large buildings at the ground level, and to provide a unifying element to the various shaped buildings.



Photography: Mullins Studio



PROFILES IN ARCHITECTURE

Concrete Masonry Association of California and Nevada

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CMACN/AIACC CONCRETE MASONRY DESIGN AWARDS

Mark your calendar for our "Call-For-Entries" brochure to be mailed in February 2011. Requests for submittal binders can also be obtained in February 2011 by calling the CMACN office at (916) 722-1700, from our website at www.cmacn.org, or by e-mail at info@cmacn.org.

Tentative Schedule:

Last date to request submittal binders: March 31, 2011

Last date for postmark of completed submittal binders: April 30, 2011
2011 Concrete Masonry Design Awards Banquet: Friday, September 23, 2011

Cost: \$150 per binder



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Concrete Masonry Association of California and Nevada (CMACN) a nonprofit professional organization established in 1977, is committed to strengthening the masonry industry in California and Nevada by providing:

- Technical information on concrete masonry for design professionals.
- Protect and advance the interests of the concrete masonry industry.
- Develop new and existing markets for concrete masonry products.
- Coordinate members' efforts in solving common challenges within the masonry industry.

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