



PROJECT FACTS & HIGHLIGHTS

Stalls: 1,200

Levels: 6

SF: 400,000

Owner:

UC Davis Health Services

GC: McCarthy Builders

Architects:

Watry Design

(Architect of Record);

Dreyfuss + Blackford

Architects (Design Architect)

SEOR: Watry Design

STRUCTURE ELEMENTS

Gravity Systems:

- Precast Columns, Beams

Lateral System:

- Precast Hybrid Moment Frame

Features:

- Precast elevator shaft
- Architecturally finished moment frame columns and beams, and elevator shafts

UC DAVIS HEALTH SERVICES PARKING STRUCTURE III

Sacramento, CA

Precast parking structure acts as the “front door” for patrons and patients

When you build anything in California, safety and performance are always first in mind. When leaders of the University of California at Davis (UCD) Medical Center began planning for a new six-level parking structure to accommodate 1200 cars, they knew it would have to meet the most rigorous seismic requirements. Administrators also wanted a structure that reflected the hospital’s reputation as one of the leading medical facilities in the country — and it had to adhere to a tight timeline and budget. The structure’s location presented an additional challenge as it is surrounded by two narrow, heavily trafficked streets leading to the main emergency entrance of the hospital.

After reviewing competing systems, Clark Pacific’s solution was chosen because it enabled the owner to achieve all of these goals.

“The use of precast concrete minimized the impact of the structure, while reducing the actual on-site duration of the project. Cast-in-place would have required substantially more construction activity.”

Genaro Morales, Design Director
Watry Design



PCI Design Award Winner





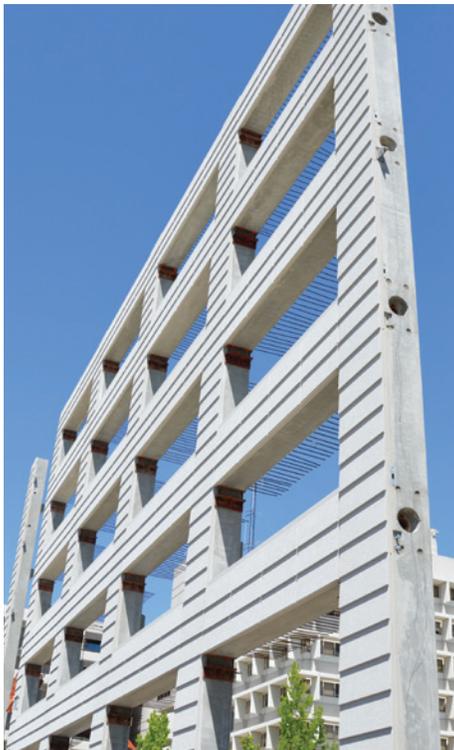
CLARK PACIFIC SOLUTION

To meet seismic design goals, designers incorporated Clark Pacific's Precast Hybrid Moment Frame system for lateral resistance. The use of the frame eliminated the need for shear walls, which helped to create more wide-open interiors to maximize space.

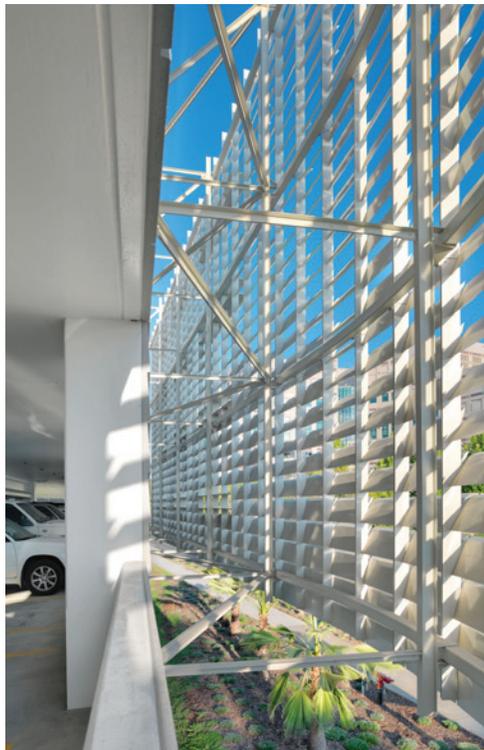
The architect chose a white architectural finish for the structural precast concrete columns and spandrels to match the precast concrete's color to that of the hospital finish. "Shingles" were added to the spandrels, to emphasize the horizontal look of the parking structure, and aluminum louvers were attached to the precast concrete facades facing the street.

"Precast concrete allowed us to meet all of the exterior facade detailing within budget," Morales says. "Shapes, textures, and color matches were much easier and economical to achieve with precast concrete than would have been possible with cast-in-place concrete."

The end result is a parking structure that provides optimal access for patients and visitors, while showcasing the functionality and aesthetic versatility of precast concrete.



Precast Hybrid Moment Frame



Integrated Architectural Features



AESTHETIC VERSATILITY

The building features an integrally colored white architectural finish on the structural precast columns and spandrels. The architect remarked that the beauty of designing with precast concrete was in the level of precision that could be specified.



RESILIENCE

The structure incorporates the **Precast Hybrid Moment Frame** for seismic resistance. The use of this resilient system obviates the need for shear walls, helping create more wide-open (shear wall-free) interiors that promote passive safety & security.



REDUCED SITE IMPACT

Clark Pacific's approach removed over 2,000 man days from the project site, significantly reducing construction impacts to this active hospital campus.



AWARD WINNING

- PCI Design Award
- AIACC Design Merit Award in Architecture
- NPA Innovative Parking Facility of the Year