

Honorable Mention

Providence St. Vincent North Parking Structure

The existing four-floor parking structure was modified into an eight-story structure. The new addition was made of structural steel instead of concrete, allowing the current structure to support the added weight without major upgrades.

The new structure consists of structural steel castellated beams and concrete slabs on a metal deck. The new parking garage adds 825 parking spaces for hospital employees and patients.

Throughout the project, the lower three floors of the existing structure remained open for employee parking. With occupants in the building during construction, it was necessary to maintain Seismic 3 requirements at all times.

Existing shear walls needed to be removed, but existing reinforcing steel elements had to remain intact in order to tie into the new structural system. Each new steel column and brace frame that connected the new structure to the fourth-floor deck had to have a custom-designed base plate and anchor locations in order to fit around the existing post-tensioned cable locations and the reinforcing steel elements.

A temporary fire sprinkler system was constructed to wet down foliage and trees to the north and east of the building, as part of the fire prevention plan. <<



Owner: Providence Health System
Submitted by: Andersen Construction