

Case Study

Embassy Suites Sacramento – Riverfront Promenade

Location: Sacramento, CA

Owner: The Hilton Family of Hotels

KASL Consulting Engineers provided site/civil design services for this Embassy Suites eight story hotel with 240-units located in historic Old Town and on the Riverfront Promenade of the Sacramento River. KASL also provided topographic mapping and construction survey services for the project.

The hotel has an underground parking garage that descends below mean sea level that is protected from flooding by existing levees and dewatering pumps. KASL developed a digital terrain computer model for the earthwork design and to estimate the amount of excavation required for the parking garage. KASL completed the design of frontage improvements for the development including curbs, gutters, drainage and driveways. Water and sewer services were designed to support the new building.

One unique aspect of the project was the need to protect a 36" diameter underground water main that ran adjacent to the hotel property along the river levee. The waterline was completely exposed and required special shoring during excavation for the building foundation and the driving of piles to support the building. KASL surveyors monitored the waterline daily to ensure there was no movement of the waterline during construction activities.

KASL surveyors also monitored the vertical construction of the hotel on a daily basis. Horizontal and vertical alignments were checked as the steel supports were erected and immediately following the placement of the concrete decks.

