

Case Study



“Comfort Systems USA had unique challenges for this project. The project location meant extra considerations were needed to get their job done. Comfort Systems USA met the challenges and delivered a quality product.”

Pat Stark, Vice President of Operations,
Roel Construction Company

Project Summary

Name
Quechan Casino Resort

Market
Commercial: Gaming and
Hospitality

Location
Winterhaven, California

Quechan Casino Resort

The Challenge

Located in the desert adjacent to sacred Native American grounds, The ‘Q’ (Quechan Casino Resort) in Winterhaven, California had special building and Heating, Ventilating and Air Conditioning (HVAC) challenges. The proximity to a sacred mountain necessitated that the roof mounted equipment be hidden from view. The desert surroundings required all new roads and services be brought into the site. California Comfort Systems USA (CSUSA) was ready to meet these challenges for the ‘Q.’

The 265,000-sq-ft Quechan Resort Casino project consisted of a five-story, 166-room resort hotel, with swimming pool and lazy river; 33,000-sq-ft casino; 20,000-sq-ft event center; food court; and a surface parking lot with 1,650 spaces.



The Solution

The CSUSA Team:

- Engineered the mechanical roof mounted equipment behind parapet walls to hide it from view.
- Used Building Information Modeling (BIM) software and avoided clashes between the many trades.
- Routed ducting throughout the casino in tight ceiling spaces.

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The poured-in-place, post-tension Quechan hotel showcases desert Mediterranean and Tuscan architecture. This look was achieved by incorporating archways, columns and tile roofs within the exterior design.

Quechan Casino Resort

A Closer Look

CSUSA won this work through a competitive bid process. Prior to the bidding process, CSUSA provided pre-construction budgeting and engineering assistance for general contractor Roel Construction Company.

The \$6,003,389.00 Design/Build project that CSUSA completed at the 'Q' included: variable air volume (VAV) mechanical systems, heating plants with hot water systems and boilers, and Trane® HVAC controls.

This was the first major casino expansion for the Quechan Tribe of Indians and they are proud of the results.

The Nation's Premier Mechanical Systems Installation and Services Provider



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