

## Casino at Dania Beach

Dania Beach, Florida

Keller successfully installed 288 auger cast piles in low headroom conditions.



### The project

The Casino at Dania Beach received a \$64M renovation, including an expansion for a new jai alai court. Jai alai is the heart of the Argentine-owned casino and is said to be the fastest sport in the world with balls traveling up to 200 mph. A two-phase deep foundations solution, including both open headroom and low headroom (LHR) piles, was required to make the expansion possible.

## The challenge

The biggest challenge on this project was access and headroom constraints. Keller had to install 60-ft-long auger cast piles with 14 ft of headroom. The client also requested Keller accelerate the schedule.

## The solution

To accelerate the client's schedule, Keller mobilized a second LHR rig and maintained productivity within a constrained and congested low headroom site. Phase 1 included 129, 18-in.-diameter piles installed 60 ft below working grade and 21 piles installed in low headroom. Phase 2 included 159, 18-in.-diameter piles installed 60 ft below working grade; all under 40 to 14 ft low headroom. The work was successfully completed between Keller and Suffolk Construction by constantly communicating with the client and other trades.

## Project facts

### Owner(s)

Casino at Dania Beach

### Keller business unit(s)

Keller

### Main contractor(s)

Suffolk Construction Company

### Engineer(s)

Thornton Tomasetti, Inc.

### Solutions

Deep foundations

### Markets

Institutional  
Sports and entertainment

### Techniques

CFA (auger cast) piles

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