



CASE STUDY

Churchill Downs Oak Grove Premier Racing, Gaming & Hotel

Fast-Paced MEP/FP Redevelopment for Premier Entertainment

Concord Engineering Group, an expert in the high-end gaming industry, was the Engineer of Record and provided MEP/FP services for a fast-paced, large redevelopment project by Churchill Downs, Inc. This project transformed a 100-acre site, including a 100,000 SF main facility with gaming areas, 128-room hotel, and restaurants into a regional destination center. The infrastructure includes a ½ mile horse track, an Equestrian center with 13 barns, and an outdoor music amphitheater.

THE CONCORD DIFFERENCE

- Real-time design allowed construction and design to overlap, meeting the aggressive 18-month schedule.
- Frequent direct communication with sub-contractors and vendors to expedite decision-making and real-time problem-solving.
- Sustainable design enabled smooth facility operations and qualified it for energy incentives.
- Extensive experience in gaming and high-end interiors.
- Ensuring long-term MEP system performance through proactive facilities management

CONCORD ENGINEERING SOLUTION

- Facility completed on time
- Design of intuitive & user-friendly MEP/FP systems allows the facility operations' team to learn the new systems quickly.
- Close work relationship with design & construction teams to solve problems in real-time.
- Hotel HVAC utilizes water-cooled VRF systems in guest rooms for increased energy efficiency.
- The mechanical systems design includes:
 - Advanced HVAC technologies
 - High-performance rooftop equipment with energy recovery ventilation
 - Free-cooling economizers
 - Variable air volume controls
 - High-performance data room cooling.
- The temperature control system is web-based with a graphics interface, allowing for real-time data retrieval.

+ LOCATION

Oak Grove, KY

+ SERVICES

Commercial Engineering
MEP/FP Design
Engineer of Record
Teledata System Design
Retro-Commissioning
Facilities Management

+ PARTNERS

Churchill Downs
R2 Architects, LLC
R2Interiors

+ TAGS

Hospitality Engineering
Gaming Engineering
High-End Entertainment
High-Performance MEP

GET IN TOUCH

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