
# Revenue-Ready from Day One

## Delivering a High-Performance Raised Floor System for a Mission-Critical Gaming Environment

**PROJECT:** Wind Creek Chicago Southland

**CASE STUDY**

WIND CREEK®
HOSPITALITY

Wind Creek Chicago Southland is Illinois' fastest-growing casino featuring an expansive gaming floor with 1,400 gaming stations. Delivered under an aggressive, two-phase schedule, Phase One prioritized completion of the casino, parking structure, and sitework to enable an early opening. With speed-to-market critical, the project demanded a general contractor capable of delivering a tightly coordinated, regulation-aligned gaming floor—minimizing rework, protecting key milestones, and ensuring a seamless pre-opening transition.


## THE CHALLENGE

For Wind Creek Chicago Southland, the challenge was delivering a raised floor system that could support heavy equipment loads, accommodate dense underfloor routing for power and low-voltage systems, and provide flexibility for late-stage gaming layout changes—all while maintaining strict tolerance control and avoiding disruptions to commissioning, testing, and opening schedules.

**Every gaming position relies on:**

- Dedicated electrical circuits engineered for uninterrupted performance.
- Underfloor routing space for power whips, fiber trunks, CMS, and player tracking systems.
- Surveillance-aligned cabling placed with precision to meet camera sightline standards.
- Structural integrity that supports heavy equipment and constant patron activity.

Any misplacement—whether a single whip, conduit, or panel—can trigger expensive rework, disrupt opening schedules, or delay gaming board approvals. Our approach minimizes those risks through engineering rigor and construction discipline.

## THE SOLUTION

W.E. O'Neil applied a structured, quality-driven approach rooted in both technical rigor and construction discipline. Drawing on proven technical differentiators and a sequenced methodology developed specifically for casino environments, our team synchronized trades, validated systems at each phase, and eliminated downstream conflicts.

# Sequenced Installation Methodology

Our structured, quality-driven delivery model keeps trades synchronized and systems validated, ensuring predictable progress with no last-minute surprises.

### Pedestal Installation & Tile Grid Establishment

We begin by installing a load-bearing pedestal and tile grid with exact spacing tolerances. This creates a stable, survey-controlled platform that supports both mechanical loads and structured technology routing.

### Rough MEP & Low-Voltage Integration

Electrical and low-voltage pathways are routed under the slab or within the raised floor system. This preserves critical flexibility for last-minute gaming mix changes without requiring costly reopenings.

### Surveillance Sightline Verification

Before any low-voltage pulls, we perform a comprehensive sightline validation to prevent blind spots. This proactive step accelerates gaming board approvals and aligns all camera infrastructure with regulatory standards.

### Turnover, Testing & Certification

Each construction phase advances only after all systems pass:

- MEP/LV functionality testing
- CMS connectivity verification
- Fire/life safety activation

# Our raised floor installation at Wind Creek Chicago Southland leveraged specialized tools and testing processes purpose-built by W.E. O'Neil for highly regulated casino environments, including:

**Slot to Switch™ Worksheets**
We create device-level cut sheets tied directly to survey control. This ensures precise, repeatable drop locations for every gaming device.

**Load Diversity Verification**
Electrical panel loading and circuit isolation are tested prior to close-up. This reduces downstream load conflicts and improves system resilience.

**HVAC Simulation Under Live Loads**
We apply temporary heat loads to model real gaming conditions, identifying airflow gaps before the gaming mix is finalized. This enhances comfort, equipment longevity, and operational efficiency.

## THE RESULT

On the Wind Creek Chicago Southland project, W.E. O'Neil successfully delivered a high-performance raised floor system supporting **1,400 gaming positions** across **seven sequenced weekly phases.** The result was a tightly coordinated, regulation-aligned gaming floor that minimized rework, protected critical milestones, and supported a smooth pre-opening transition.

Our process achieved near-zero floor reopenings, maintained full NEC compliance even with late stage layout changes, and enabled an **87-day pre-opening burn-in period** for machine testing, staff training, and system validation, ensuring the gaming floor was revenue-ready from day one.

**BUILDING SMARTER. GREATER CONTROL OF TIME AND COSTS.**
Let's build something great together!

**CONTACT**
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**OUR GAMING EXPERTISE**

W·E·O'NEIL