

UNDERFLOOR SERVICE DISTRIBUTION

by Tate Access Floors

Phoenix ONE Data Center
Phoenix, AZ

DATA CENTER PROJECT

538,000 gross sq ft
460,000 sq ft access floor

PRODUCTS USED:

ConCore 1250 1/16" HPL Integral Trim
Perf 1000 0.040" HPL Integral Trim
FFH 36"
Bolted Stringer Understructure
Underfloor Air System
Modular Wiring & Cable



Subject

Phoenix ONE Data Center

Arizona-based i/o Data Centers is a completely integrated data center services firm that designs, builds and operates world class raised-floor data centers, including data center space, conditioned uninterruptible power, network-neutral telecommunications access and internet bandwidth. When i/o Data Centers saw the opportunity to renovate the unoccupied LeNature's Beverages building, a 538,000 square foot facility near Sky Harbor Airport that was built in 2005, it signed a 20-year lease with landlord CBRE Investors, and will use the site as both a data center and its corporate headquarters. Always a proponent of raised flooring, i/o Data Centers looked to Tate Access Floors to tackle a project of this size.

During the initial phase of construction for Phoenix ONE, Tate installed 180,000 sq. ft. of raised access floor. The area covered during the second phase will include an additional 180,000 sq. ft. The final phase is scheduled for completion by September 1, 2009, with another 100,000 sq. ft. of raised floors installed. The use of raised access floors with underfloor service distribution provides data centers with the ability to handle high heat loads in the most energy efficient means possible. Cool air is supplied closer to the racks, along with various integration strategies for accommodating lower fan speeds and higher temperatures that take advantage of displacement ventilation. The result is reduced operating costs and lower facility and maintenance costs. Tate's raised access floors are designed to facilitate the service distribution challenges of ever-changing technologies, and the increasing cooling demands of today's mission critical facilities. With a full range of panel load performance options, Tate can meet the rolling load requirements of any equipment upgrade. All Tate components are zinc whisker-free, eliminating the risk of short circuit. The team of i/o Data Centers and Tate Access Floors has created an efficient, flexible building that will serve its customers for years to come.

The logo for Tate Access Floors, featuring the word "Tate" in a bold, blue, sans-serif font with a registered trademark symbol.

"There was no question that we would incorporate raised flooring into our Phoenix ONE data center and we knew that industry-leader Tate was the right choice for a project of this magnitude."
Anthony Wanger, president and founder,
i/o Data Centers

TATE AUTHORIZED DEALER
Integrated Support Systems
Phoenix, AZ

ARCHITECTURAL FIRM
Peter Lendrum Architecture Ltd
Phoenix, AZ

GENERAL CONTRACTOR
i/o Data Centers
Phoenix, AZ