Designing the Box

Data Center Design Forum

Throughout the year, the Data Center Journal publishes images and details around specific data center projects that would be interesting and informative to you, our readers. We are interested in all aspects of data center engineering, technology and design. We select projects that are unique from an overall availability, architectural, mechanical, electrical, and fire protection design. We have 3 different designs to present to you in this April issue on design topics. We hope you find them interesting. Applicants can come from any of the major design disciplines that displays innovation and outstanding skills. To have your work considered, we invite you to share your projects by sending us a short description, technical drawings and pictures. Files should be sent in a PDF format. If your project is selected we will contact you directly with publishing requirements.
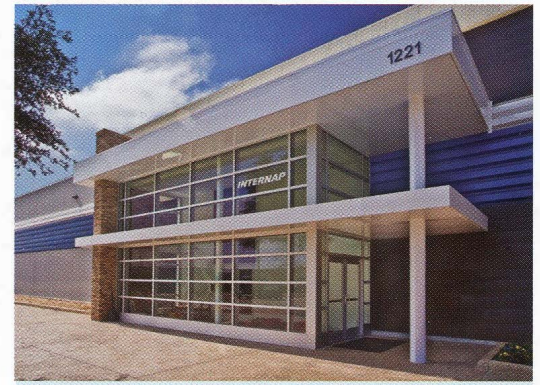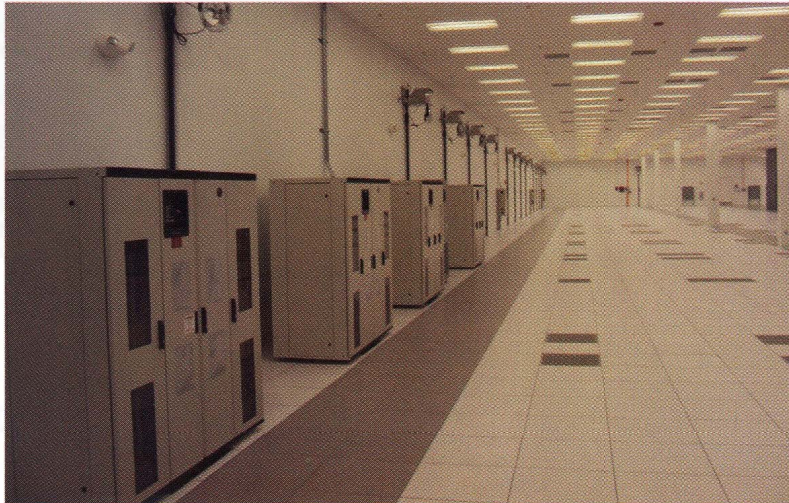
Internap Data Center
Plano, Texas

Pieper O'Brien Herr Architects provided full architectural and interior design services for this 107,000-SF brown field data center designed to accommodate 72,000-SF of Tier III co-location white space at 200 watts per square foot. The data center is a high-reliability, high-density facility that provides comprehensive IT Infrastructure services – including managed hosting, collocation, cloud hosting, dedicated hosting, managed hosting and a global, performance-optimized IP network, backed by a 100% uptime Service Level Agreement – to the area's diverse range of enterprises. The facility features the latest in data center design techniques including in-row cooling options and close coupled liquid cooling solutions enabling high density configurations of up to 18KW per rack– among the highest in the industry.

The facility offers a superior modular design allowing for increased reliability and enhanced flexibility. State-of-the-art technology provides for high density power and high efficiency cooling options, while advanced security and protection features ensure data is secure 100% of the time. With tech rooms, customer lounges, conference rooms, storage areas and offices, customers have the flexibility to do business their way.

More than just an N+1, the infrastructure system is designed for concurrent maintainability of generator, UPS and cooling modules, enabling this facility to maximize the uptime of a client's environment. This uptime is further supported by carrier diversity with a robust carrier-neutral Meet-Me-Room, including alternative transit and local access options. In addition, the facility provides Internap' Performance IP with optimized links up to 10GB through more than 10 top tier carriers.

Internap Plano received LEED Gold certification, as well as two Green Globes certification, making it the first certification of a public data center in Texas. As a part of Intenap's overall design philosophy, they are committed to consuming fewer fossil fuels, reducing greenhouse emissions, minimizing the impact on land and providing a better work environment.

PROJECT DETAILS

Name of Project
Internap Data Center – Plano

Address:
1221 Coit Road, Plano, TX

Client/Owner:
Internap

Architect Lead Name:
Pieper O'Brien Herr Architects

Project Team:
Johnny Hembree – Principal
Jonathan Lichtenfels – Project Mgr.
Leslie Riddoch – Interior Designer

Consultants:
Morrison Hershfield – MEP
KSI – Structural Engineer

Type of Availability:
55,000-SF net-sellable facility

Power Density of Site:
up to 18KW per cabinet

Project Scope:
107,000-SF Tier III Data Center

Project Type:
New Construction

Project Status:
Complete

Year Completed:
2012

Size of building:
107,000-SF

Amount of Raised Floor:
55,000-SF

Project Budget:
$22 million