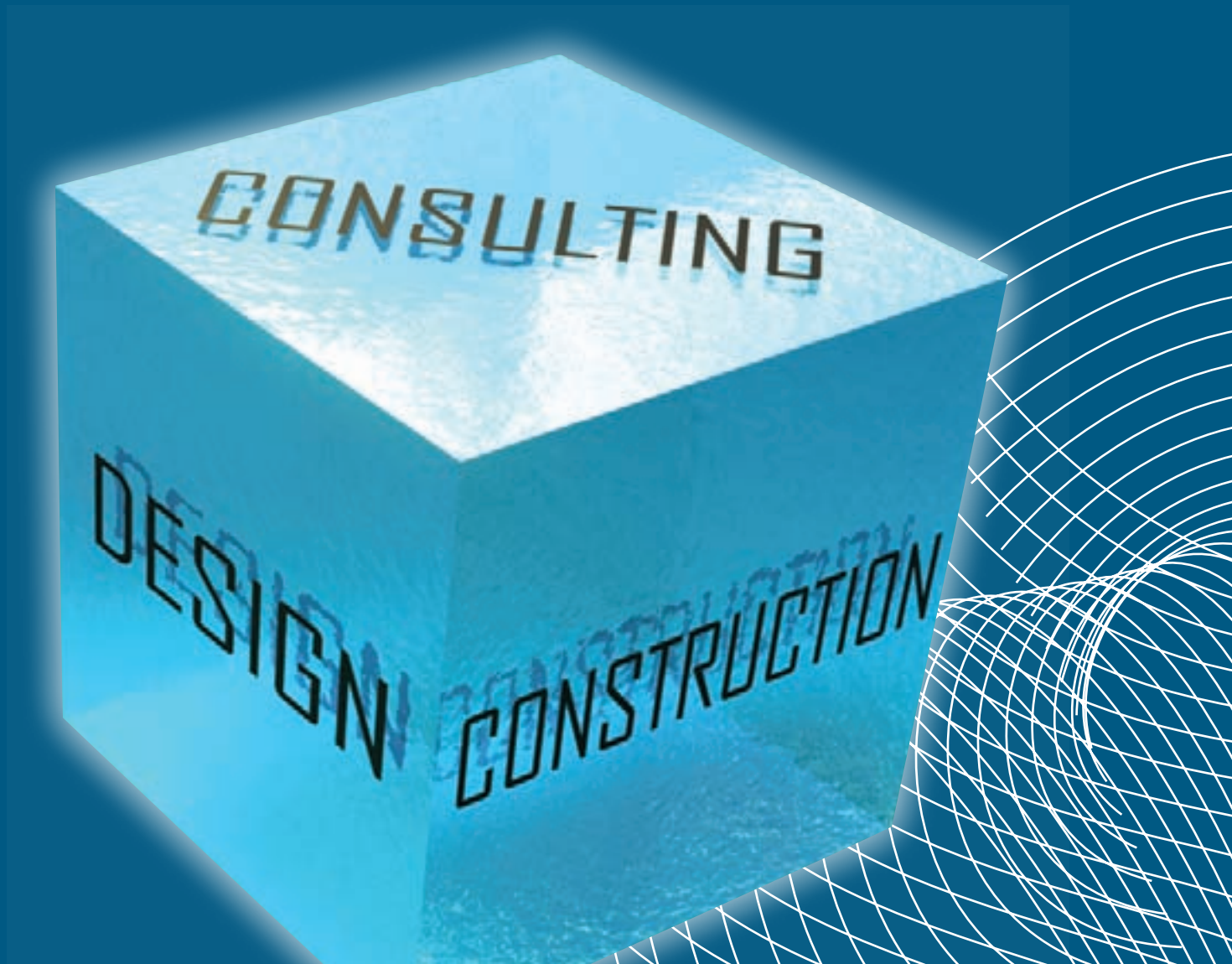


# Carlson

consulting.design.construction



# Consulting, Design, and Construction.

Founded in 1945, Carlson has embraced a dynamic team approach to design and construction. To this end, we draw from our extensive expertise and experience in program management, strategic planning, architecture, engineering, construction and design/build.

Working together, our professionals develop and implement solutions that are smarter, aesthetically pleasing, functional, and cost-effective. Integral to our service is our drive to do whatever is necessary to deliver the job on time, within budget and to our client's complete satisfaction.

Carlson's work ethic, integrity, and professionalism have continued to prove themselves over the years. We are proud to have many clients of long-standing who return to us time and time again for subsequent projects.



# The Critical Difference in Critical Facilities

Carlson has been chosen by some of the most prestigious companies in the world for the design and construction of their Mission Critical Facilities. This is truly a reflection of the trust they have in the quality of our company.

The high level of our work has drawn a client list from the Fortune 500 as well as from major Financial Institutions, Internet Providers and Developers of Data Center environments.



We have distinguished ourselves with the completion of millions of square feet of Data and Operations Centers throughout the United States. Projects range from the design and construction of new facilities to the consolidation of those already in existence. Yet while the size of each project may vary, we pay as much attention to detail in the planning, design and construction of small computer room expansions as we do to large, highly sophisticated facilities. That's because every job completed—large or small represents our company and therefore must meet the high standards by which we measure ourselves.

# Services

We provide a full range of Engineering, Design, and Construction capabilities including studies and evaluations, master planning, interior and exterior design, and construction. And we do it all seamlessly. So no matter which particular area of our services you require, you will find our resources to be professional, our expertise impressive, and our work unsurpassed.

Our extensive understanding of design and construction of data and operations centers includes:

- *Flexible layouts to accommodate future equipment and facilities changes.*
- *Environmental friendly solutions for Green Building Programs and Leed certification.*
- *Compartmentation and containment to isolate problems and avoid large scale disasters.*
- *N+1, N+2, and 2N philosophies, continuous uptime, concurrent maintenance, systems redundancy and avoidance of single points of failure.*
- *High density cooling solutions to accommodate the most sophisticated processing equipment on the market today and planning for future technologies.*
- *Systems flexibility by utilizing modular components for power cooling, etc.*
- *Security design to resist both natural disasters and physical intrusions.*
- *Computing area integrity, free from RFI, EMI, or water penetration.*
- *Isolated grounding and harmonics in electrical systems.*
- *Data/telecommunication wiring/Local Area Networks, Wide Area Networks.*
- *Fire protection/suppression/detection systems.*
- *Building Management Systems, control and/or monitoring.*





## **PROGRAM MANAGEMENT SERVICES**

- Program Development/Management
- Feasibility Studies
- Strategic Facility Planning
- Project Evaluations
- Conceptual Schedule and Cost Preparations
- Site and Environmental Analysis
- Master Planning
- Facility Programming
- Existing Facility Evaluations
- Regulatory Agency Review and Compliance
- Leed Certification

## **DESIGN AND ENGINEERING SERVICES**

- Programming
- Master Planning
- Architectural Design
- Interior Design/Space Planning
- Rack and Cabinet Layout Philosophies and Design
- Structural Engineering

### *Electrical Engineering*

- Power Distribution
- Control Systems
- Emergency Power Systems
- Energy Management Systems
- Communication Systems
- Protection/Security Systems
- Grounding Systems
- Power Monitoring
- Fire Alarm Systems



### *Mechanical Engineering*

- Building Thermal Evaluation
- Energy Evaluation/Conservation
- Specialized Ventilations/Exhaust
- Plumbing/Fire Protection Engineering
- Computational Fluid Dynamics (CFD)
- High Density Cooling Solutions



## **CONSTRUCTION SERVICES**

- Construction Management
- Design/Build
- Project Scheduling
- Cost Estimating
- Project Feasibility Analysis
- Constructability Consulting
- Design Review
- Value Engineering
- Project Management
- Fast Track Construction
- Quality Control/Assurance
- Cost/Schedule Control
- Purchasing/Expediting
- Project Accounting
- Safety Program
- Building Systems Training
- On-site Supervision
- Integrated Commissioning and Testing

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