STUDENT SERVICES CENTER

SAN JOSE STATE UNIVERSITY

■ Energy/Modeling ■ Mechanical

Underfloor Distribution System for Mechanical & Electrical Systems

Exceeds California Energy Code by 20%

Fast-track Design and Construction

2003 ASHRAE Golden Gate Chapter Technology Award

San Jose State University converted the main floor of a campus parking garage to a new Student Services Center. Our challenge was to provide an HVAC system that would accommodate the building's sloping, uneven floors and post-tensioned slab structure without permanent alteration to the parking garage floor. Our solution was an underfloor distribution system for mechanical and electrical systems, which is more cost-effective, energy-efficient, and flexible than a conventional system. Another challenge was the university's aggressive 10-month schedule, from programming through occupancy, which the design team met. Our underfloor system, along with other energy measures, helped the building exceed the California 1998 energy code by 20 percent.

Before: the building as a parking garage

OWNER
San Jose State University
SCOPE
97,000 SF
SERVICES
HVAC, Plumbing, Fire Protection
Energy Analysis
COST
$7 Million
COMPLETED
2000