

CORE STRENGTHS



Making facilities safe.

HOSPITALS

Hospitals demand their own set of unique structural engineering solutions. In addition to basic building codes, design engineers must also consider elements such as infection control standards and uninterrupted services for patient care. Our structural engineers bring older hospitals up to date and support architects in the construction of new hospitals. We use performance-based design techniques to assure that seismic upgrades to hospital structures are completed safely, efficiently and effectively.

LABORATORY & RESEARCH FACILITY DESIGN

Costly laboratory equipment cannot be trusted to the ground disturbances of an earthquake. Even the small vibrations sustained by most buildings on a daily basis can be detrimental to a critical research project that relies on functional equipment. Tuning structure mass and stiffness to minimize common vibrations and creating walls that minimize magnetic interference in these sensitive areas are just a couple of the ways we work to protect the integrity of a laboratory. Our structural engineers also command the in-depth knowledge of performance-based design techniques needed to minimize seismic damage to mission-critical laboratory equipment during an earthquake.

ENGINEERING SERVICES

- Historic Preservation
- Building Renovation
- Seismic Retrofit
- Design
- Construction Administration
- Cost Estimating
- Energy Dissipation & Base Isolation
- FEMA Seismic Evaluations
- Parking
- Peer Review
- Plan Review
- Surface Water Management
- Underground Structures Design
- Utilities
- Valve Engineering
- Performance Based Design
- Nonlinear Dynamic Structures Modeling

PLANNING SERVICES

- Feasibility Studies
- Fire-Life Safety Code Compliance Review
- Permitting

SURVEY SERVICES

- Condition Surveys

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MEDICAL OFFICE BUILDINGS

Medical support staff play a vital role in every healthcare facility, and creating the right administrative facilities to house these operations is essential to keeping hospitals and clinics running smoothly. When designing a medical office facility, our structural engineering team understands how efficient, accurate design improves building and workforce performance. We design to satisfy current client needs while anticipating future expansions, which results in reduced project costs and improved efficiency.

HOSPITAL PARKING GARAGES

Designing parking garages to meet the high seismic standards for hospital structures requires attention to detail and familiarity with the specific needs of these unique facilities. We combine critical care facility standards with our knowledge of seismic guidelines and transportation guidelines to produce reliable hospital parking garages.