

Susan E. Scott, P.E.

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Summary

Structural engineer with fourteen years of experience in design and analysis

- Extensive familiarity with wide range of material and structure types
- Master's degree in structural engineering, bachelor's degree in civil engineering
- Good technical, analytical, communications, and problem-solving skills
- Specializing in public buildings of unusual or innovative design

Work Experience

Datum Engineers, Inc., Austin, TX

Design Engineer/Project Engineer/Associate, 6/96–6/10

Designed buildings and other structures in reinforced concrete, steel, composite steel, wood, glu-lam, and masonry. Worked with architects and contractors to optimize designs, coordinate plans, reconcile discrepancies, and resolve field problems. (See attached list and personal website for examples of specific projects and associated duties.)

- Performed design and analysis using RISA 3D, Ramsteel, ADAPT, and spColumn, plus various in-house design and analysis software
- Created design/analysis spreadsheets and developed design standards
- Acted as primary in-house resource for seismic design
- Mentored junior engineers with engineering and software problems
- Assumed basic project management duties
- Managed construction administration work and conducted jobsite observations
- Edited specifications as appropriate for individual projects

University of Texas at Austin, Ferguson Structural Engineering Laboratory, Austin, TX

Graduate Research Assistant, 9/94–5/96

- Designed, built, and tested models of defective cantilever bridge piers in the I-35/I-10 interchange in San Antonio
- Designed, built, and tested various retrofit systems for feasibility and cost-effectiveness
- Reported results of tests and recommendations to Texas Department of Transportation
- Presented results more thoroughly in master's thesis, *An Evaluation of Repair Methods for Cantilever Bridge Piers*

Licenses and Affiliations

- Texas PE license #88638
- American Society of Civil Engineers
- Engineers without Borders
- Order of the Engineer
- Chi Epsilon

Education

- MS in Structural Engineering, University of Texas at Austin, May 1997
- BS in Civil Engineering, University of Texas at Austin, May 1994

Selected Project Highlights

Belo Center for New Media, University of Texas, Austin, TX

Five-level, 250,000 sq ft, reinforced-concrete pan joist building, with post-tensioned girders, composite steel wings, and steel bar joist roof. Designed piers, columns, basement walls, wind frames, cantilevered terrace roof, and monumental stairs. Construction is beginning.

Dell Children's Medical Center Neurosurgery Addition, Austin, TX

Small two-story underground addition to Dell Children's Medical Center. Designed reinforced-concrete pan-joint floors and two-level retaining walls. Designed steel supports for IMRIS equipment, with strict deflection and vibration requirements. Designed roof for current green-roof usage and future floor usage, with mechanical penthouse. Designed connections to existing building. Addition is complete.

Chickasaw Nation Medical Center, Ada, OK

Composite steel hospital in seismic area, one to four levels, approximately 400,000 sq ft. Designed seismic-load-resisting steel moment frames and piers. Designed cantilevering canopies. Structure is complete.

Scott & White Hospital Additions, Temple, TX

Various additions to existing hospital, pan joist and composite steel systems. Designed floor and lateral framing, including connections to existing structure. Handled most construction administration work, including numerous field problems due to existing building irregularities not shown on existing plans. Designed supports for heliport on roof. Sealed drawings for Central Utility Plant. Some additions are complete; others are on hold.

Scott & White Round Rock Hospital and Clinic, Round Rock, TX

Three-level composite steel clinic and two-to-four level reinforced concrete hospital, with provision for expansion up to eight levels. Designed piers, grade beams, floor and roof beams, columns and wind braces for clinic. Designed piers, grade beams, columns, shear walls, and moment frames for hospital. Acted as interim project manager, coordinating 100% hospital issue, for several weeks. Clinic and hospital are complete.

Old Red Courthouse Restoration, Dallas, TX

Designed steel truss frame inside tower of 19th-century historic courthouse to support reconstruction of massive masonry clock tower and turrets which had been removed early in the century. Frame is supported on pockets in lower part of existing masonry walls and supports a 2'-thick slab which cantilevers out over 8' past the top of the walls to avoid imposing new gravity and wind loads on the deteriorating masonry. Project is complete.

Austin City Hall, Austin, TX

Three-level underground parking garage, with basement level and 4-level building above. Designed columns for parking garage up to plaza level (building above designed by DBE subcontractor). Designed reinforced concrete plaza level for several feet of earth, trees, and boulders, plus potential traffic live loads. Designed beams and slabs supporting building, involving major transfer girders and multiple irregular floor drops. Parking garage and building are complete. Winner of 2006 CRSI Design & Construction Excellence Award.

Prim Library at Sierra Nevada College, Incline Village, NV

Composite steel and glu-lam building in high seismic region with high snowfall and many design complications, including non-continuous diaphragms, limited member depth, lack of redundancy in lateral bracing, and shallow footings. Designed all floor and roof framing members and seismic bracing system. Building is complete.

Dallas Police Memorial, Dallas, TX

11' x 93' flat stainless steel structure cantilevering off of a built-up tube with an irregular cross-section, which itself cantilevered off of nine variously-angled cylindrical columns near one end. The tube was post-tensioned and the columns were cambered to minimize dead-load deflections. Designed stainless steel structure and steel-and-concrete composite foundation. Structure is complete. Featured in the April 2003 issue of *Structure* magazine.