Pickett, Kelm & Associates, Inc.
Consulting Structural Engineers

Applied Materials Building 30

PROJECT LOCATION:
AUSTIN, TEXAS

PROJECT OWNER:
APPLIED MATERIALS

ARCHITECT:
GRAEBER, SIMMONS & COWAN

GENERAL CONTRACTOR:
FAULKNER CONSTRUCTION CO.

PROJECT COMPLETED: 1996

PROJECT DESCRIPTION:
Pickett, Kelm & Associates, Inc. provided structural engineering for this 360,000 square foot, three-level office, manufacturing and warehouse building for Applied Materials in Austin, Texas.

The foundation consists of drilled piers with underreamed footings founded in claystone at depths of 35 to 60 feet. The levels one and two manufacturing, warehouse and office floors consist of precast concrete double tees and inverted tee beams. The upper office floor and mechanical fan deck were constructed using composite steel framing. The roof framing consists of steel joists with joist girders. A covered trash and recycling dock was constructed using cast-in-place one-way structured slab and beams systems supported on underreamed piers, with a standing seam roof over tube steel beams and columns.

The project was delivered on a fast-tracked design-build basis. The shell building construction was completed 14 months after receipt of authorization to begin design. Structural construction packages were issued for the building foundation piers, precast concrete, structural steel and shell building.

During construction, the lowest level of the building was modified to incorporate a 3'-6" drop to accommodate a 48,000 square foot manufacturing cleanroom installation.

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