

# Project Spotlight: 609 Main at Texas

## Houston, Texas

The 609 Main at Texas is a 50-level, Class A “trophy” office tower with 12 levels of parking below the office building and a free-standing 12-level parking garage adjacent to the building. By using wide module pan construction for the office tower, the Ceco team was able to maximize efficiency to follow an aggressive schedule. Ceco engineers and field forces customized the longform pan system to achieve an eight-day cycle per floor, with each office level measuring approximately 28,000 square feet. The wide module, one-way joist system made possible the structural engineer desired design loads and also reduced vibration. Pan construction also creates long slab spans, which enabled the flexible, open floor space needed for the office tower.

### PROJECT TYPE

Office Building 28,000 SF / Typical Level

### DESIGN LOADS

Additional DL = 10 PSF; LL = 50 PSF

### TYPICAL FLOOR MATERIAL QUANTITIES

- Slab Concrete: 1,002 CY, equivalent slab depth of **11.75”** (average)
- Slab Rebar: **9.00 lbs./SF**
- Beams (only) PT: **0.58 lbs./SF**

### TYPICAL FLOOR PLAN

Total depth 22” for joists and steelform depth beams, plus deep wind girders

Bay Width - varied, with typical 30’ Bays, Length - 42’ Bays

Pan Size - 16” depth; 66” width; 6” thick slab

### TYPICAL FLOOR CYCLE

8 Days

