

# Old World Industries 1, Ltd.

Pasadena, Texas

## Ethylene Oxide Process Expansion



Adding new process equipment to a facility originally installed in the 1960s presented many challenges to the design and construction teams. Working closely with the owner and contractors, Perigon executed detail design documents for structural, electrical, instrumentation, and piping to facilitate the installation of this Ethylene Oxide process expansion at Old World Industries in 2006. The new process structure with caisson foundations had to be designed to fit within a very limited area with a variety of existing underground obstacles. The new structure consists of two elevated floor levels supporting several large heat exchangers and vessels.

- \$21 million TIC
- Process, Piping, Structural, Electrical, and Instrumentation
- Major tower retrofits, limited space with complex existing conditions, large diameter 36" piping, hundreds of piping tie-ins, connections to existing structures, and existing equipment