



Key achievements

- Completed construction within an active chemical plant and followed a comprehensive safety program and procedure.
- Pre-drilled the site to relieve pressure of ground conditions while decreasing overall time spent on the project.

The project

A recent expansion at the Olin Chlor Alkali Chemical Plant left the Olin Corporation in need of new electrical distribution lines throughout the facilities. McKinney Drilling provided a turnkey service installing the new high voltage electric pole foundations.

The challenge

The Plant's facilities were to stay fully operational meaning work had to be completed in and around an active plant that included existing low overhead, high voltage electric lines and existing structures. In addition to active plant concerns, the presence of hard dolomite limestone earth conditions were undesirable.

The solution

Extreme caution was taken while working under the low overhead, high voltage electric lines and during the intermediate mobilizations through the active plant. Six (6) - 72" and 84" caissons were installed for the pole foundations. The average caisson length was 27ft with 15ft to 20ft rock sockets. Multiple spotters were used to ensure that no one was injured and no damage occurred to the existing Plant. The very hard dolomite limestone was pre-drilled prior to McKinney Drilling's large diameter auger drilling, which ultimately decreased the overall time spent on the project. Permanent casing, full length rebar cages, and grounding were also installed.

Application

Deep Foundations

Technique

Drilled Shafts (Caissons)
Pre-Drilling

Market Sector

Industrial & Manufacturing

Owner

OLIN Corporation

Main contractor

N/A

Engineer

K&H Architectural and
Engineering Services, LLC

Keller business unit (s)

McKinney Drilling Company