

CASE HISTORY

48th Avenue Outfall Support Denver, Colorado

Project Challenge

Construction of a new concrete utility vault intersected an existing sewer main that needed to remain operational through most of the project. The line had to be supported and maintained at the proper elevation while crews excavated beneath it, installed a permanent reinforcing sleeve and constructed the vault around it.



Project Solution

MAGNUM Geo Solutions developed the complete temporary support structure and recommended construction sequence.

Before excavation, six MAGNUM® MH939U3-6 helical piles were installed and fitted with MHC1300-9P24B2 end caps. A temporary steel frame was supported by the piles, and the sewer main was suspended from the frame using independently adjustable straps.



MAGNUM Products

- Six MH939U3-6 helical piles
- Six MHC1300-9P24B2 end caps

Key Advantages

- Installed before excavation
- Adjustable support for the active sewer main
- Clear access for vault construction
- Removable temporary foundation system
- Coordinated engineering and construction sequencing



