

Client Contact:
Mr. Robert Henry
Arapahoe Utilities and
Infrastructure, Inc.
303-690-8888

Services Provided:

- **Developed**
Excavation Designs

Project Summary:

Cesare, Inc. (Cesare) has performed numerous designs for contractors needing temporary excavations greater than 20 feet in depth for the installation of utilities and the construction of subsurface water storage tanks. OSHA requires that all excavations greater than 20 feet in depth, or with the slopes exceeding those indicated in CFR 1926, Subpart P, be designed by a professional engineer. We used subsurface information from both our and other geotechnical studies on-site to develop excavations with and without the support of trench boxes. Our designs typically include a site

observation by a firm member, a stamped letter for compliance with OSHA standards, as well as requirements for capacities of trench boxes if used. We developed numerous excavation designs including those used for the Ursula Street Sanitary Sewer Project in Aurora, Colorado, the Pinery West Sanitary Sewer Project in Douglas County, Colorado, the St. Vrain Sanitary Sewer Project in Adams County, Colorado, and the Columbine Clear Well Project in Adams County, Colorado.

