



South Metro Fire Rescue Station 34

8871 East Maximus Drive
Lone Tree, Colorado

The project included the construction of a multi-level fire rescue facility with a footprint of approximately 15,000 square feet, consisting of a high wall apparatus bay in the center of the building flanked by an equipment area and residential/office area. The construction consisted of a spread footing foundation system with a slab-on-grade. The foundation system and slab were founded on 3 feet of properly moisture-density treated on-site materials. The building was constructed utilizing a structural concrete masonry framing system with slab-on-deck floors. The exterior completion included a smooth and split-face CMU finish with a pre-cast accent trim. The roofing consisted of an EPDM roofing and flashing over metal decking.

Associated construction included site grading, site utilities, heavy-duty concrete aprons, exterior flatwork, a parking area, retaining wall, in addition to a two-lane entrance/access road.

GROUND provided the geotechnical engineering and construction observation and materials testing services, to support the quality construction of the project. Field and laboratory testing of the soils, concrete masonry units (CMU), reinforcing steel, concrete compressive strength and asphalt paving were performed by GROUND Engineering. The steel erection and welded and bolted connections were tested and observed utilizing visual and non-destructive test methods.