Taxiway WC Lighting Vault - DIA

Part of Runway 16R-34L
Denver International Airport

GROUND Engineering provided all construction materials quality control on this premier project. The project included the construction of a lighting vault, lift station and approximately 6,500 lineal feet of associated utility piping and 166,900 lineal feet of fiber optic lines, ducts and cable lines. The foundation construction consisted of a deep, drilled pier foundation system with a slab-on-grade. The slab-on-grade was placed on 3 feet of reconditioned on-site soils and 3 feet of imported structural fill to reduce settlement and differential movement. The building was constructed of structural concrete masonry unit (CMU) and structural steel columns with a steel joist/metal deck roof design.

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