

Colton Avenue Flood Control Improvements

Client – City of North Las Vegas

Owner – City of North Las Vegas



The project consists of construction of a Reinforced Concrete Box Culvert (RCB) along Colton Avenue between North 5th Street and the Interstate 15 right-of-way. The proposed RCB will run approximately 3,400 feet along the north half of Colton Avenue. The proposed RCB will be 9'x6' in size with invert elevations of up to 15 feet below the existing street grades. The subject RCB alignment intersects three roadways, including Bucyrus-Erie Street, Donna Street, Bruce Street, and crosses North 5th Street and Losee Road. The project will also include Colton Avenue pavement rehabilitation, storm drain laterals, stub-outs, drop inlets and roadway improvements.

GES will perform a field exploration along Colton Avenue consisting of seven exploratory borings to a depth of 25 feet each below the existing ground surface for a total drilling footage 175 feet. Using USA, GES will obtain clearance for known, public underground utilities at the proposed boring locations and will also obtain an encroachment permit from the CNLV. GES will perform a geologic reconnaissance along the subject roadway and within 100 feet either direction of the right-of-way to locate any potential faults and fissures. Blow counts and relatively undisturbed ring samples will be obtained using a driven California Sampler. GES will perform laboratory testing on samples obtained from the explorations including moisture and density tests, sieves, Atterberg limits, consolidation, direct shear, sulfate and solubility tests, R-Value, maximum laboratory dry density, and swell potential. GES will prepare a geotechnical evaluation report. GES will also perform pavement rehabilitation analysis for rebuilding the entire pavement section for Colton Ave., attend design meetings as requested, and provide a Phase 1 Environmental Site Assessment.