

# Boulder City Municipal Airport Upgrades

Client – Kimley-Horn and Associates, Inc.

Owner – City of Boulder City



The existing runways at the Boulder City Municipal Airport were constructed in 1989 and are 3,850 feet and 4,800 feet in length and were designed and constructed to serve light aircraft having a maximum weight of 12,500 pounds. The existing runways will likely be reconstructed or overlain with new asphalt based on the results of an evaluation to be performed by Kimley-Horn & Assoc., Inc. In addition, two new run-up areas will be constructed to provide space to enable aircraft to pull off of the taxiways. It is anticipated that the run-up areas will be paved with asphalt. The existing runway and taxiway shoulders will be resurfaced using either compacted Type II Aggregate Base or soil cement.

GES will evaluate whether the on-site soils, which are anticipated to be silty to poorly graded sands with varying amounts of gravel, will satisfy the criteria for aggregate base course supporting asphalt pavements and shoulder surfacing material and whether they will be suitable for aggregate used in soil cement. GES will perform a field exploration at the subject site. GES will subcontract with our sister company Eagle Drilling Services, LLC to drill all ten exploratory borings. The borings will be drilled to approximately 10 feet below the existing ground surface of total footage 100 feet. Blow counts and soil samples will be obtained using a 2-inch outside diameter split spoon sampler. GES will also measure the thickness of the in-place asphalt and underlying aggregate base. GES will perform laboratory testing on samples obtained from the explorations and will prepare a limited geotechnical evaluation report to include minimum thickness of pavement sections for new runways.