

Crown Mountain Immigration & Customs Enforcement Facility St. Thomas, USVI

Project Description

Pro Geotech, Inc. performed a subsurface investigation for foundation and pavement design for improvements to the Crown Mountain U.S. Immigration & Customs (ICE) Facility on St. Thomas in the U.S. Virgin Islands. The improvements to the ICE Facility included a new elevator, a new guard house, two new gates, new fencing, new parking lot and entrance road pavement, and a new leach field for the septic system. Pro Geotech advanced a total of 10 test borings for structure, fence and pavement foundation design and hand excavated four (4) holes for percolation tests. The test borings ranged in depth from 5.5 to 40 feet. Shallow and deep foundation recommendations were provided for elevator design and shallow foundation recommendations were provided for all other structures. Pro Geotech performed both classification testing and physical testing to determine the engineering properties of the soil samples. Two (2) bulk samples were obtained from the shallow auger cuttings from the pavement borings to perform two California Bearing Ratio (CBR) tests to provide pavement design parameters. The percolation test holes were each excavated to a depth of 38 inches and percolation tests were performed after saturating the holes overnight. PGI also performed two (2) field soil resistivity tests at the site.

Client:

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Performance Period:

November 2009 to
September 2010

Project Costs:

\$47,527

PGI's Role:

Geotechnical Exploration



Pro Geotech, Inc.