

RELEVANT GEOTECHNICAL ENGINEERING PROJECTS

xxxxx -- Brownsville, Texas (2015 - ongoing)

xxxx served as Senior Project Manager and lead engineer conducting geotechnical engineering investigation for this project (confidential). Geotechnical Engineering services include more than 30 borings and Cone Penetration Test (CPT) soundings (seismic) up to depths of 225 feet, along with specialty laboratory testing program. Analyses are being performed to evaluate bearing capacity, settlement, liquefaction potential and other issues at the site. Surcharge/pre-load options with wick drains for accelerated consolidation settlement are also considered for this project. Instrumentation and monitoring during surcharge and pre-load phase is also planned.

xxxxx -- Hidalgo County, Texas (2013-15).

xxxx served as Senior Project Manager and lead engineer for geotechnical engineering services associated to a 250-MW wind-powered, electric generating facility (Wind Turbine Generators - WTG, substations and transmission line) in Hidalgo County, Texas. Geotechnical Engineering services include more than 150 borings, installation of piezometers, pressuremeter testing (PMT), electrical and thermal resistivity and geophysical surveys for seismic evaluation and classification. Recommendations for foundation design and construction were provided.

xxxxxx -- Hidalgo County, Texas (2014-15)

xxx served as Senior Project Manager and lead engineer conducting a geotechnical investigation and providing foundation design recommendations for the proposed State Highway (SH) 365 – (Segment I) to be located in Hidalgo County, Texas. The approximately 8-mile highway section includes several bridge and retaining wall structures as well as the relocation of two existing levees. Geotechnical Engineering services include more than 90 borings, Cone Penetration Test (CPT) soundings, and specialty laboratory testing program. Recommendations for pavement design and associated structures were provided in a several reports. Analyses were performed to evaluate and satisfy sliding, overturning, bearing capacity and global stability criteria for the proposed Mechanically Stabilized Earth (MSE) walls. Seepage, levee global stability, and settlement analyses for the proposed levees were also performed.