



EDUCATION

M.S., Civil Engineering (Geotechnical), University of California at Davis, 1995
B.S., Civil Engineering, Case Western Reserve University, 1993

PROFESSIONAL ORGANIZATIONS

| | |
|-------------------------------------|-------------------------------------|
| American Society of Civil Engineers | Deep Foundations Institute |
| American Public Works Association | American Rock Mechanics Association |
| United States Society of Dams | Floodplain Management Association |

ACCOMPLISHMENTS

Geotechnical investigations for public works projects related to facility improvements and repairs
Liquefaction hazard assessment and analysis
Evaluation (static, seismic, rapid drawdown) of embankment dams
Design of pier and lagging, tie-back, masonry, segmental block, and soil nail retaining wall systems
Geogrid reinforced slopes and retaining wall systems
Seismic embankment deformation analyses

REPRESENTATIVE EXPERIENCE

Cull Creek and Don Castro Dams Castro Valley, CA
Project manager and lead engineer responsible for geotechnical investigation, testing, and analyses program for determining seismic stability of earth dam located near the Hayward Fault. Managed subsurface investigation, testing, analysis, and evaluation of the seismic safety of two 50+ foot tall earth dams owned by the Alameda County Flood Control Agency. Project included coordination between client and State of California Division of Safety of Dams Prepared preliminary report documenting findings, investigation, analyses, conclusions and recommendations.

Geotechnical Levee Certification Alameda County, CA
Subsurface exploration and testing for FEMA certification of a levee in Fremont. Work included completion of over 10 cone penetration soundings and 40 deep rotary wash borings along the levees. Project is being completed as part of a FEMA levee certification process for Alameda County Flood Control District

Lakeshore Storm Drain Improvements Oakland, CA
Managed geotechnical investigation for a new pre-cast box culvert at Lake Shore Avenue. Work was completed as part of an awarding winning project undertaken by the Alameda County Flood Control Agency. The project includes construction of a 3000 foot long 6x8 foot pre-cast concrete box culvert adjacent to an existing cast-in-place box constructed in the early 1960s. The outfall of the line discharges into Lake Merritt. The variable soil conditions along the alignment required that the downstream 1200 feet of the line be supported on driven piles while the remainder of the project could be constructed as a conventional cut and cover box culvert.

Sewer Relief Pipeline Oakland, CA
Managed a geotechnical study for the design and construction of a new 5500 lf, 66 inch diameter reinforced concrete sanitary sewer relief system in west Oakland, California. Project crossed from alluvial soil through Bay Mud and required special shoring and foundation treatment.

Cowell Road Embankment Stabilization Concord, CA
Lead design engineer for stabilization of 500 foot long four lane roadway embankment using cast-in-place-drilled piers and tiebacks. Completed full PS&E for project and coordinated construction with the City of Concord.

Galindo Creek Channel Repairs Concord, CA
Managed preparation of PS&E and provided permitting assistance and construction observation services for restoration of 1200 lf of concrete lined channelized creek through residential neighborhood. Work included investigations, design, construction observations and testing, and permitting assistance through coordination with CDFG, US ACE, and SFBRWQCB.

Highway 1 Widening Retaining Walls Carmel, CA
Lead design engineer for segmental retaining walls incorporated as part of a Caltrans reviewed and approved widening of Highway 1 in Carmel. Prepared non-proprietary technical specifications using Caltrans Special Provisions format. Project included pile supported retaining walls due to environmental constraints.

Reinforced Slopes-LA High School Los Angeles, CA
Completed design calculations and prepared plans and specifications for the construction of a 800 foot long 49 foot maximum height 1H:1V geogrid reinforced slope. The project eliminated several large conventional concrete retaining walls and resulted in a savings to Los Angeles Unified School District. The project required coordination with the project general contractor, architect, school district, and general civil engineer and was reviewed by the Division of State Architect. Completed project is largest reinforced soil slope in city of Los Angeles.

Retaining Walls at Home Depot Auburn, CA
Manager and lead designer of large retaining walls constructed to develop site for construction of new Home Depot in Auburn, California. Services included coordination of geotechnical and civil engineering project consultants, design analyses and calculations, preparation of plans, specifications, and estimates for the retaining walls, and part-time engineering assistance during bidding and construction of the project. The project included retaining walls up to 20 feet tall and over 1200 feet long.

Norton-Retting Landslide Repair Project Oakland, CA
Project Manager and lead design engineer for the repair of a landslide affecting six properties and a City street. In addition to the geologic and geotechnical characterization and design of the site, the project had substantial constraints related to: right-of-way, hydrology, trees, creek, and environmental groups.