

The first step in ensuring a successful engineering project is obtaining a quality geotechnical evaluation of the site. Our team of experienced field personnel and Licensed Professional Engineers offers the value-added expertise critical to the successful design and construction of any project.

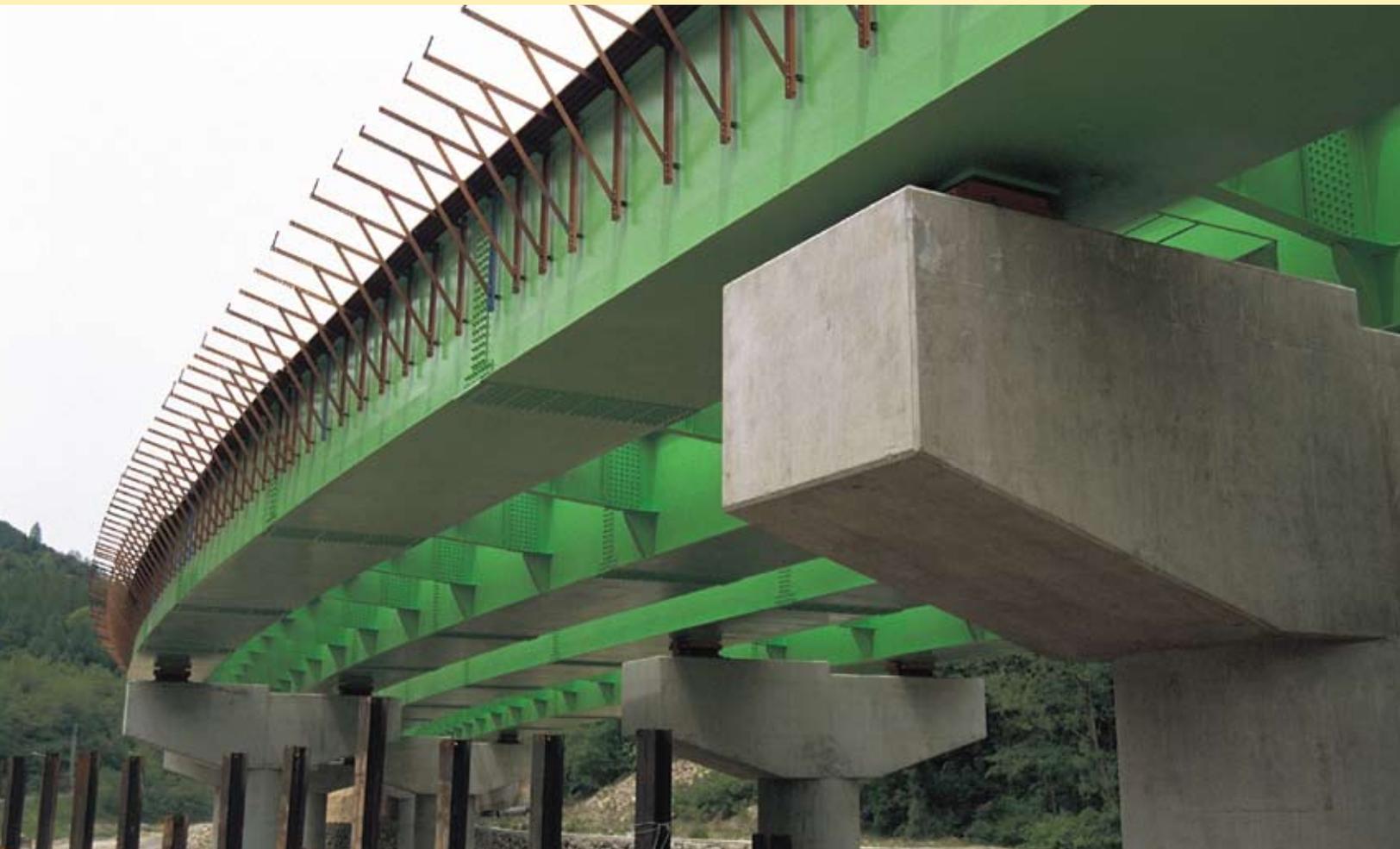
## Site Feasibility Assessment and Preliminary Planning

TransTech Geotechnical Services can identify critical geotechnical and geologic site features to evaluate the viability of a proposed site for development. We then outline and implement a preliminary geotechnical exploration program to simplify project planning.

## Geotechnical Site Characterization

TransTech Geotechnical Services tailors a subsurface exploration program specific to your project. Being involved from the beginning ensures that a thorough soil profile is gathered in a precise and cost-efficient manner. Our experienced field personnel give you the confidence that accurate information is obtained.

A Variety of field data can be collected from soil boring and rock coring to standard penetration testing, Shelby tube sampling, down-hole vane shear testing and electrical resistivity testing. TransTech's all-terrain drilling capability lets us navigate steep ground and negotiate obstacles to access just about any boring location.



# TRANSTECH GEOTECHNICAL SERVICES

## Laboratory Testing

Soil and rock samples recovered from subsurface exploration program are subjected to a variety of laboratory tests through our affiliated laboratory, QCQA Labs, Inc. They maintain a state-of-the-art laboratory with the latest equipment utilized by a well-trained and certified staff. QCQA Labs is accredited through the Association of State Highway and Transportation Officials (AASHTO). Having a close relationship with a laboratory of this caliber facilitates the entire testing process.

## Engineering Design and Analysis\*

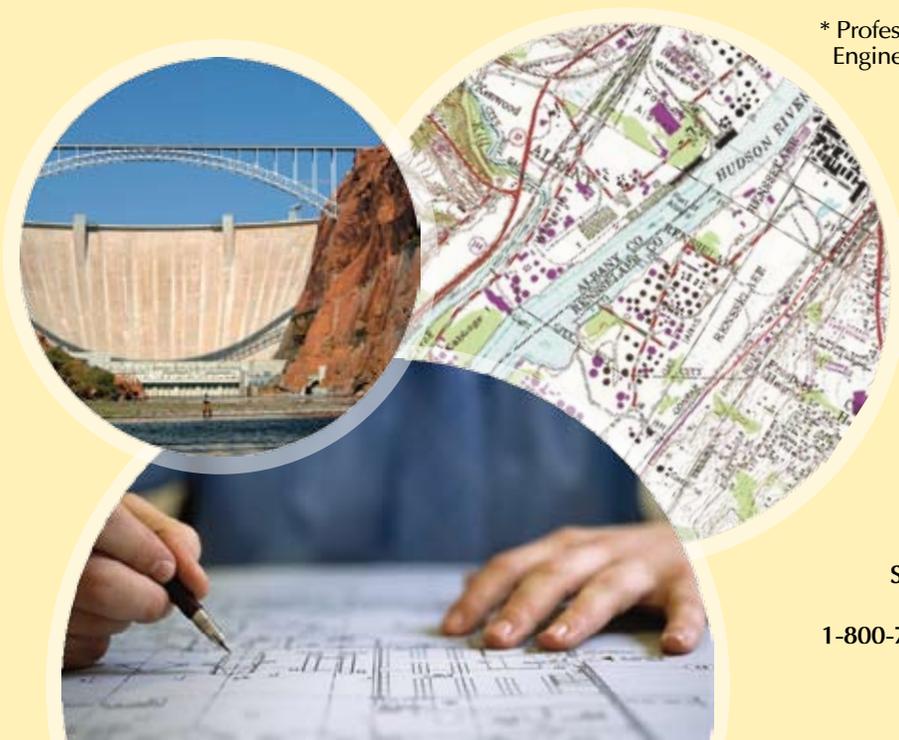
Our staff of Licensed Professional Engineers is experienced in geotechnical and structural engineering and land development as well as construction materials engineering and testing. Resources include a full suite of engineering analysis software (including finite-element) and extensive reference materials to ensure comprehensive evaluations are made. Completed projects include residential, small and large industrial facilities, office buildings, multi-story university laboratory and educational buildings, electrical substations and transmission line towers, underground pipelines, bridges and roadway reconstruction projects. This breadth of expertise allows us to contribute during the full life cycle of project from concept and preliminary planning through design development and final construction.

TransTech Engineering analyses and consulting services cover:

- Shallow Spread Foundations
- Mat Foundations
- Driven End-Bearing and Friction Piles
- Drilled Pier (Caisson) Foundations
- Mini-Piles
- Seismic Analysis (including soil liquefaction potential)
- Ground Modification Techniques
- Embankment Construction
- Settlement Analysis
- Lateral Load Capacity
- Cantilever and Gravity Retaining Walls
- Sheet Pile Walls
- Underpinning Systems
- Slope Stability Analysis
- Flexible and Rigid Pavement Design
- Geosynthetic Materials
- Bridges and Culverts
- Forensic Analysis
- Temporary and Permanent Dewatering Systems
- Peer Review
- Project Review (including design drawings and specifications)
- Submittal Review
- Construction Observation and Testing

TransTech Geotechnical Services is located in Schenectady, NY. Serving clients throughout New York and Vermont.

\* Professional engineering services provided by TransTech Engineering Services, PC.



**TransTech**  
GEOTECHNICAL SERVICES

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