

Project Name

Subsurface Evaluation for a New 26.4KV Substation

Client

The College of New Jersey
Ewing, NJ

Services Provided

- Permitting
- Installation of Soil Borings and Data Collection
- Installation of Monitoring Well
- Perform Subsurface Geotechnical Testing
- Data Review and Report Writing

Project Description

The College of New Jersey plans to install a new 26.4KV Electric Substation on-site to accommodate the increased electric demands of the College due to recent growth and expansion. Prior to installing the sub-station, a subsurface geotechnical evaluation was required to assess the stability of the underlying soils and determine the soil bearing capacity.

Approach

SAI installed four soil borings for the purpose of identifying the geologic subsurface strata. There was an existing monitoring well located in the area of proposed activities that had been abandoned; a new well was installed nearby to continue groundwater monitoring. SAI prepared a final evaluation report which addressed the following:

- Foundation type and soil strength parameters
- Groundwater elevations
- Retaining wall criteria
- Paving criteria
- Soil boring logs

