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Geotechnical analysis using advanced numerical methods such as soil-structure interaction finite element modeling, and groundwater modeling can often better simulate complex geotechnical problems, define earth and water loads, and result in more economical designs compared to conventional analysis.

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Geotechnical Engineering is at the foundation of every structure and project. What do we do? We evaluate stability of natural slopes and man-made soil deposits; assess risks posed by site conditions. We understand soil mechanics and rock mechanics, and many of the aspects of geology, geophysics, hydrology, and other related sciences. ...

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Geostructural Design for building elements containing soil-structure interaction such as soil nail walls, ground anchor supported retention systems, excavation support systems, micropiles, underpinning and soil improvement (aggregate pier designs, stone columns, vibro densification, grouting)

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NYS DOT Geotechnical DRAFT Page 12-8 of 12-118 DRAFT October 1, 2012 Design Manual Table 12-1 Summary of Information Needs and Testing Considerations for Embankments (adapted from Sabatini, et al., 2002) 12.1.3 Soil Sampling and Stratigraphy The size, complexity and extent of the soil sampling program will depend primarily on the type,

CHAPTER 12

Prerequisite: CEE 367 or equivalent introductory geotechnical engineering course Offered: A. View course details in MyPlan: CESG 561. CESG 562 Advanced Geotechnical Laboratory (5) Soil and site investigation, classification and engineering properties of soils and rock as determined by standard and advanced test procedures and equipment ...

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The information presented herein is based on limited geotechnical information and structure configuration from the preliminary architectural plans. Therefore, the data may not be enough for final design or construction. Additional geotechnical investigations including soil borings, in-

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