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Soil Slope and Embankment Design

Reference Manual



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9. Performing Organization Name and Address Parsons Brinckerhoff, Inc. One Penn Plaza, New York, NY 10119 * The Collin Group, Ltd., Bethesda, MD 20814 ** ADAMA Engineering Inc., Newark, DE 19711				10. Work Unit No. (TRAIS)	
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16. Abstract This reference manual is an update of 2002 Reference Manual (FHWA NHI-01-026) for the 2 ½ day NHI Course 132033 "Soil Slope and Embankment Design". This manual describes the basic principles of soil slope stability and state-of-the-practice analysis and design procedures for soil slopes and embankments with particular application to transportation facilities. The main topics covered in this manual include: <ul style="list-style-type: none"> • geotechnical and geological factors affecting the performance of soil slopes and embankments; • fundamental concepts of soil mechanics with respect to slope stability and settlement; • limit equilibrium methods to analyze soil slopes and available computer programs; • design, construction and performance of highway embankments; • investigation and mitigation of landslides; • common alternatives for soil slope stabilization; and • construction inspection and long-term maintenance. 					
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