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Determination of Soil and Rock Properties Subsurface soil or rock properties are generally determined using empirical correlations related to the testing that is performed during the field exploration program (e.g. Standard Penetration Test (SPT)) outlined in Section 200C-1 and/or the laboratory testing as outlined in Section 200D-1.

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Design Manual Engineering Properties of Soil and Rock

method and correlations being used. Many of the correlations developed to determine soil properties are based on N₆₀-values. SPT N values shall be corrected for hammer efficiency, if applicable to the design method or correlation being used, using the following relationship. $N_{60} = (ER/60\%) N (5-1)$ Where: N = uncorrected SPT value (blows/ft)

Chapter 5 Engineering Properties of Soil and Rock

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Published by ISTE Ltd and John Wiley & Sons, Inc. [8.6] f74 Geotechnical Correlations for Soils and Rocks The above correlations have been extended for cases of overconsolidation in a general form: $\sigma_v = 1 - \dots$ [8.7] where $\sigma_v = 0.5$ according to Schmidt [SCH 66] or $\sigma_v = 0.46 \pm 0.05$ according to Jamiolkowski [JAM 79].

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