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LIST OF SYMBOLS AND ABBREVIATIONS

Roman Letters

C	Soil cohesion
CD	Consolidated drained shear strength test
CPT	Cone penetration test
CU	Consolidated undrained shear strength test
D_r	Relative density
DSS	Direct Simple shear test
ft	Feet
I_p	Plasticity Index
K_0	Coefficient of lateral earth pressure at rest
LL	Liquid Limit
m	Meters
N	Standard penetration test blow count, blows per foot
N_k	Cone tip resistance factor
N_k^*	Corrected cone tip resistance factor
N_q	Bearing capacity number
NC	Normally consolidated
OC	Overconsolidated
OCR	Overconsolidation Ratio
P_a	Pressure of one atmosphere (14.6 psi)
PSA	Plane strain active stress state
PSP	Plane strain passive stress state
q_c	Cone penetration test tip resistance (cone bearing), usually expressed in bars or kg/cm^2
q_p	Net cone tip resistance, $q_c - \sigma'_{vo}$
q_u	Unconfined compressive strength
S	Soil shear strength
S_u	Undrained shear strength
S_d	Drained shear strength
SPT	Standard penetration test
TE	Triaxial extension stress state
TC	Triaxial compression stress state
UU	Unconsolidated undrained shear strength test

LIST OF SYMBOLS AND ABBREVIATIONS

Greek Letters

ϕ'	Effective stress angle of internal friction
σ'_{v0}	Effective overburden pressure (in situ vertical stress)
σ_3	Confining pressure; minor principal stress
$\Delta\phi$	Reduction in friction angle for a 10 fold increase in confining pressure
ϕ_0	Angle of internal friction for confining pressure of 1 atmosphere
ϕ	Total stress angle of internal friction
σ_1	Major principal stress
σ_{v0}	Total overburden pressure
σ'_{vm}	Maximum past effective overburden pressure; (preconsolidation pressure)
ϕ_r	Residual angle of internal friction
σ_{1f}	Major principal stress at failure
σ'_N	Effective normal stress
μ	Field vane shear strength correction factor

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