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ground modification can accomplish a number of goals including increasing  
resistance to liquefaction providing lateral stability increase density decreasing  
permeability increasing both shear strength and bearing resistance controlling  
deformations increasing drainage decreasing imposed loads accelerating  
consolidation

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modification and improvement are often necessary to prepare the ground for a  
foundation to support a building or other infrastructure this article explains nine  
different deep ground modification techniques and how they are used

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mitigate liquefiable soils improve loose or soft soil to reduce settlement increase  
bearing capacity shear or frictional strength as well as overall improvement of  
stability for embankment and structure foundation improve slope stability for  
mitigation of landslides increase density decrease imposed load

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ground improvement techniques iadc dredging Jul 24 2023 ground improvement techniques are used when the behaviour of the fill mass and or the underlying soil does not meet required design criteria ground improvement of hydraulic fill can include treatment of the fill mass itself treatment of the subsoil underlying the fill or treatment of both reasons for ground improvement

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engineering principles of ground modification manfred r hausmann mcgraw hill 1990 soil mechanics 632 pages

**evaluation of ground motion selection and modification** Dec 17 2022 the results show that for the classes of buildings considered here one can improve the prediction of structural response by appropriately taking into account higher mode

and nonlinear properties in addition to elastic first mode properties of the buildings when selecting and scaling ground motion records

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