
Construction examples of water and sewage facilities using the CPR method for an earthquake resistant reinforcement of pile foundations

Kazuhiko URANO, Yuji ADACHI, Tatsufumi NISHIO, Kozo TSUKAGOSHI and Hiroshi OKADA

The CPR method is a new earthquake resistant reinforcement method for pile foundations, in which piles are confined in the ground with a soil solidification body. The novel method has been adopted in practice for the reinforcement of road bridges and aqueducts to reduce earthquake damage in urban areas where the land area required for reinforcement work does not exist. The soil solidification body is usually constructed using the high-pressure jet grouting method with a strength and shape (block, wall) determined by design. In this report, we report the case of applying the large diameter high pressure jet grouting (V-JET) method to the earthquake resistant reinforcement work of the pile foundation such as the substructure of the water pipe etc. designed by the CPR method.
