

**Seismic Performance of A Reinforced Soil Embankment Which Supports The Roadbed
by Chemical Piles**

Kimihiro FUJII Kenichi KOJIMA Yusuke TAKANO
Yusuke SUYAMA Takahiro NONAKA

The material which is of not good quality cannot be used in the embankment for the slab track of Shinkansen. We have developed the pile slab track embankment using the material of not good quality which supported the concrete roadbed by soil improvement piles. We confirmed the effect of this method by shaking table tests. Moreover, we confirmed, based on its test result, the properties of the gabion using a geotextile on the head part of the improvement pile which was devised so as to prevent the macadam from slipping out. This paper describes the seismic performance of the embankment realized by this method, which has been confirmed by the results of these tests.