

**Development of Roadbed Improvement Method that can be Constructed Simultaneously
with Existing Ballastless Track**

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In order to reduce the cost of track maintenance, a ballastless track was developed, in which the ballast voids of an existing track are filled with cement grout. However, some ballastless tracks require repairs within a few years after, if the soft roadbed. In this study, we develop a construction method that can improve the roadbed simultaneously with the construction of the ballastless track, when the ballastless track is constructed on a soft roadbed. We evaluated the deformation characteristics of the ballastless track with improved roadbed by full scale loading tests. It is also found that the amount of plastic settlement of ballastless track can be evaluated by the repeated triaxial compression test of subgrade material.