

**A Trial Design of Pile Foundations Applying a New Design Code and
a Comparative Design between the New and Current Design Code**

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The design standard for railway foundations, currently based on the limit-state design method is under preparation as a performance-based design method in near future. In this report, we present the trial design of pile foundations according to the new design code, and the difference between the results from the new and current design codes. We performed the seismic performance verification of two rigid frame elevated bridges with the different type piles: cast in place concrete piles and screwed steel piles, using criteria for restoration and safety performance, i. e., (L1 and L2 seismic spectrum II). Consequently, we confirmed that it is adequate to prepare justifiable designs with the new design code.