

**A Trial Design and Evaluation of Steel-Concrete Hybrid Structures Applying a Comparative Design
between the Revised Design Standard and the Current One**

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The design standard for railway hybrid structures, currently based on the limit-state design method, is under revision to the performance based design method. In order to evaluate the effect of the revision, we carried out trial designs of hybrid structures according to the revised design standard and the current one. In this report, the trial designs of concrete encased H-steel girders, a portal frame bridge pier with concrete filled steel tube columns, and a rigid frame viaduct with concrete filled steel tube columns, were carried out by the two different design methods. Consequently, we have verified that more efficient design results can be obtained by the new design standard.