## 9. Experimental Study of Piled Raft Foundation -Part1 Results of In-situ Loading Tests-

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Though, use of different foundations has been prohibited by building standards. with change from specification design to performance design, exception rule was established recently. So, the trend to adopt piled rafft foundation has growned.

Usually, support ground level is deep, length of pile become longer, and construction cost increase. The building foundation consists of raft foundation and short friction pile improves cost performance. This foundation system allows a certain level of setting to fit ground. So, precise desiging of size and arrangement of piles is necessary to attain target performance against vertical and horizontal load without excessing over setting.

In-situ loading test was performed on Kanto-loam ground. As the result, basic data which are used to verify the analytical method ,and to examine characteristics of interaction between piles and raft, and share distribution ratio of load were obtained.

Key words: piled raft foundation, kanto- loam ground, in-situ test, vertical and horizontal loading test