

13. Development of Connection Method For Top of Pile, Direct CP - Steel Tube Column To Precast Concrete Pile With Rigid Connection -

Hidetaka Funaki, Akifumi Takeda, Takashi Yamada

In steel building like the shopping center, the effective method has been required for construction period shortening and cost reduction. For the purpose of the rationalization of the foundation work in the steel building, we developed connection method for top of Pile in which the steel tube column was united with precast concrete pile. The steel structure lost basic beam and footing can be realized by this connection method. The loading test was carried out on the connection of steel tube column embedded in the steel pipe concrete, and the effect of factors such as the embedding depth of the column on performance of structure was grasped. Stress distribution of the connection was grasped by the FEM analysis, and the validity of the design model was confirmed.

Key words : connection method for top of pile, precast concrete pile, steel tube column, loading test, FEM analysis