Dynamic Testing of Micropiles by Pile Dynamics

Micropiles are more and more frequently chosen as a solution for difficult foundation problems. They usually have a high capacity relative to their diameter. This bearing capacity is frequently verified by static load testing of a few initial test piles. The following case shows dynamic testing as an economical and effective alternative to static testing, and a supplemental quality control tool. On a recent fast track project, geotechncial consultant **Schnabel Engineering** recommended that a new structure be supported by a micropile foundation. The geotechnical consultant considered both Dynamic and Rapid load testing methods to evaluate the micropile foundations. The first piles to be dynamically tested by **GRL Engineers** were the ones on which static tests had been performed. This was done to establish a Class A correlation between static and dynamic testing, therefore GRL was not made aware of the load testing history of the piles before submitting the dynamic test results. These results, obtained after CAPWAP® analysis of the Pile Driving Analyzer data and were only slightly higher than static test capacities. ■

غالباً ما يتم حالياً اختيار العوامید الصغيرة كحل لمشاكل الأساسات.
ويتم فحصها بطريقة ديناميكيّة فتُشكّل أداة فعّالة لمراقبة النوعية.

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