

Effective Utilization of Dynamic Pile Testing for Optimizing Deep Foundations Usage and Cost

Driven piles are commonly used as deep foundations for all types of structures in various geotechnical conditions. Their engineering design includes structural, geotechnical, and drivability considerations; and their construction involves manufacturing, driving, testing, and inspection. Dynamic pile testing methods are routine procedures in modern piling work and are an integral part of the design and installation process. Typically, several Test Piles are installed for the purposes of confirming the project design assumptions, evaluating the contractor's means and methods, and establishing production piles' length and driving criteria. Alternatively, 100% dynamic testing is performed on all piles. This presentation discusses the effective utilization of dynamic pile testing for optimizing deep foundations usage and cost for efficient, economical, and reliable driven piles foundations. Several case histories will be presented.