

Method for Dynamic Load Testing

ABSTRACT

An apparatus for performing dynamic load testing for a foundation pile is disclosed. The apparatus comprises a cover placed on the top of the foundation pile, a transducer attached to the foundation pile below the cover, a detachable framework mounted on ground across the foundation pile, wherein the detachable framework has a pair of vertical supports with the top ends connected by a reversed U- shaped frame, a hydraulic winch comprising a pulley, wherein the hydraulic winch is attached to the reversed U-shaped frame, and a hydraulic clamp holding a hammer, attached to the pulley of the hydraulic winch. A crane is used to lift and connect the hammer to the hydraulic clamp. Once the hammer is clamped to the hydraulic clamp, the hydraulic clamp is commanded to release the hammer, so that the hammer falls freely towards the foundation pile. To ensure that the hammer falls perpendicularly with respect to the ground towards the foundation pile and hit the foundation pile precisely, a steel guide casing axially aligned and clamped to the foundation pile, is provided for vertical passage of the hammer.

(Fig. 2)