



How A Pile Driving Contractor Looks At Specifications

By Walter C. Ernest, Jr.

SPECIFICATIONS for pile driving are sometimes very brief, especially if originating from the owner without benefit of consultation with the architect or design engineer. In this case the contractor's know-how and familiarity with site conditions are essential to achieve a successful foundation with few problems, financial or technical.

More frequently the specifications have been developed by an engineer but without complete information on soil conditions or without mentioning required length of piles at all locations on the job site.

We are normally asked to quote a price based on a set of plans with the pile layout, *estimated* length, class of timber piles, the bearing required, and the kind of treatment necessary (according to AWWA Standards). Usually there is not much more to help us work up the estimate. It will be up to us to count the number of piles needed and figure in any necessary load tests and anything else conditions may require, put all of this in a "proposal" and submit a price for the work.

In regard to timing, we will carefully check pile delivery dates and availability. It is important that piles for the main structure should not be ordered, for example, until the test piles are driven and loaded. If the job, as a result of load testing, calls for very long piles, deliveries at the start may be slow. Time is of the essence on most jobs and we have found that a careful check of delivery dates for various kinds and sizes of piles can save us many delays.

To avoid confusion, in the absence of a proposal furnished by the owner, a careful check of the estimated number of longer or shorter piles is recommended. We will estimate a lump sum for the number of piles at the basic length or an aggregate length of "so many feet." The basic length of piles is determined by dividing the total number of piles into the total footage.

All pile footage is generally estimated. Some piles will have to be longer or shorter, depending upon the nature of the soil and the number of borings made to

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Walter C. Ernest, Jr., has been in the pile driving business for more than 40 years. He has driven piles of all kinds in Central America, Europe, Australia and the Islands of the South Pacific.

He studied civil engineering at Auburn University and Mississippi State College. He has supervised and directed the driving of many thousands of piles.

In addition to contracting pile foundation installations, Mr. Ernest has designed and constructed many pile driving rigs for both land and floating work.

During World War II he served as a Major with the Corps of Engineers, Engineer Section — 6th Army. He was responsible for all dock construction for the 6th Army in New Guinea and the Trobian Islands.

He is a member of the Associated General Contractors of America and past president of the Mobile branch; a fellow of the American Society of Civil Engineers, and a member and past president of the Mobile Post of the Society of American Military Engineers.



