DESIGN CRITERIA

USE OF PILE INTERACTION DIAGRAM

The interaction diagrams are for use in the design of prestressed concrete piles. These are to be used only in conjunction with the design procedure and examples outlined in the following references:

2. PCI Committee on prestressed Concrete Piling, “Recommended Practice for Design, Manufacture and Installation of Prestressed Concrete Piling,” PCI JOURNAL, V. 38, No. 2, March-April 1993, pp. 14-41.

The interaction diagrams are not to be used in conjunction with other column design procedures, such as moment magnification or P-delta analyses.

As noted in Reference 2 above, these diagrams are generally applicable to concentrically loaded piles with \(1/r\) greater than 60, or to piles loaded under combinations of axial load and moment. The variable \(1\) represents the effective unsupported length of pile, and corresponds with the variable \(h'\) in the references above, while \(r\) is the radius of gyration.

Contact Concrete Technology Corporation: regarding questions about the proper use of these diagrams.