



SOUTH CAROLINA

DEPARTMENT OF HIGHWAYS AND PUBLIC TRANSPORTATION

P.O. BOX 191

COLUMBIA, S.C. 29202

March 8, 1989

PRESTRESSED PILES
PRESTRESSED BEAMS

MEMORANDUM TO DESIGN GROUP LEADERS & CONSULTANTS

Subject: 1) Prestressed Concrete Pile Lengths
2) Prestressed Concrete Beam Design

1) Prestressed Concrete Pile Lengths

All piles within a particular bent should be detailed to be the same length whenever practical. Pile lengths should be shown in whole foot increments. When piles are to be driven to a particular tip elevation, the required tip elevation shown in the plans may vary for each pile or a minimum pile tip elevation may be set for all piles in the bent.

2) Prestressed Concrete Beam Design

When prestressed concrete beams are required to be cast in varying lengths, the designer should consider using a constant number of prestressing strands in as many beams as practical and varying the height of the draped strands within individual beams. This will allow the fabricator to achieve a more efficient utilization of the casting bed length.

B. A. Meetze, Jr.
Bridge Engineer-Design

cc:
Mr. Schroeder, FHWA
Design Group Leaders
Mr. Rush
Mr. LaBoone
Mr. Kneece
Mr. Martin
Consultants

RLK/ddg