

**450 PRECAST PRESTRESSED CONCRETE CONSTRUCTION.**  
**(REV 6-25-07) (FA 6-28-07) (1-08)**

SUBARTICLE 450-4.1 (Pages 448 and 449) is deleted and the following substituted:

**450-4.1 Concrete:** Perform the QC sampling and testing of concrete in accordance with the requirements of Section 346.

ARTICE 450-5 (Page 450) is deleted and the following substituted:

**450-5 Shop Drawings.**

Submit shop drawings when the Contract Documents do not contain all the detailed information necessary to fabricate and/or erect the pretensioned prestressed concrete product. Ensure the submitted shop drawings meet the requirements of 5-1 and any additional Contract Document requirements.

Shop drawings are not required to depict supplemental reinforcing steel used to facilitate fabrication of products.

In lieu of shop drawings, furnish one copy of the following to the Engineer:

1. A copy of the Framing Plan with product designations for all superstructure components.
2. Strand detensioning schedule.
3. Tensioning and elongation calculations.
4. Details of supplemental steel that remains as part of the finished product.
5. Submit full plan details and Specifications, when proposing to use materials and/or methods that differ from the requirements of the Contract Documents. Ensure the alternate materials and methods meet the following requirements:
  - a. The provisions of the Contract Documents.
  - b. The AASHTO LRFD Bridge Design Specifications, edition with interims as referenced in plans.
  - c. The recommendations of the material manufacturer.
  - d. Any materials change proposed by the Contractor and approved by the Engineer.
  - e. Net compressive stress in the concrete due to prestressing acting alone, after all losses, is not less than that provided by the stranding shown in the plans.
  - f. Ultimate strength of the structure with the proposed changes is not less than the ultimate strength of the original design.
  - g. The provisions of the Departments Structures Design Guidelines.