



Under §706-17 Fabrication, *delete* the first three paragraphs and *replace* with the following:

Fabrication. Precast concrete box culverts shall be fabricated to conform to the details and dimensions contained in the plans and contract documents. When the contract plans contain complete design details for the culvert, alternate designs will not be considered. When the contract plans do not contain complete design details for the culvert the contractor shall be responsible for providing them. Precast concrete box culvert designs, submitted by the contractor, shall meet the requirements of the NYSDOT Reinforced Concrete Box Culvert Design Guidelines.

All box culvert designs shall be submitted by the contractor, to the Department, for approval. The processing, approval and transmittal of box culvert designs will be in accordance with procedural directives of the Materials Bureau. Designs shall be submitted at least 45 days prior to the start of fabrication and shall include a complete set of working drawings and a complete set of design calculations. The drawings and design calculations shall be stamped by a Professional Engineer licensed, and registered, to practice in New York State. When the contract plans contain a complete design for the culvert, working drawings are still required. However, they do not have to be stamped by a Professional Engineer and design calculations are not required.

Working drawings shall include complete and accurate details for connecting, when required, headwalls, cut-off walls, wingwalls, apron slabs and bridge railing to the box culvert.

Under §706-17 Fabrication, *add* the following at the end of the fifth paragraph:

When fill heights over the box culvert are less than two feet all reinforcing steel in the top mat of the roof slab shall be epoxy coated meeting the requirements of §709-04 Epoxy Coated Bar Reinforcement, Grade 60 or §709-08 Epoxy Coated Wire Fabric Reinforcement. Fill heights shall be measured from the top of pavement to the top of the culvert roof slab.

Under §706-17 Fabrication, *add* the following paragraph at the end of the section:

Precast concrete box culverts shall be fabricated to the following dimensional tolerances:

- a. Internal and external unit dimensions shall not vary by more than 1/2" from the design dimensions.
- b. Slab and wall thickness shall not vary from the design dimension by more than 1/4" for thicknesses less than 10", or 1/2" for thicknesses of 10" or greater.
- c. The length of section shall not vary more than 1/2" from the design dimension.
- d. Variations in laying lengths of two opposite surfaces of the box section shall not be more than 1/2".
- e. Variations in the required spacing of reinforcing steel shall not be more than 2" and are not cumulative. Concrete cover over reinforcing steel shall not be more than 1/2" greater than, and in no case be less than, the design dimension.
- f. All other dimensions shall not vary by more than 1/4" from the design dimensions.