

714-R-755 REINFORCED CONCRETE BOX STRUCTURES

(Adopted 11-18-22)

The Standard Specifications are revised as follows:

SECTION 714, AFTER LINE 87, INSERT AS FOLLOWS:

The box structure, headwalls, wingwalls, and footings shall be designed and constructed in accordance with the dimensions shown on the contract plans. Construction joints shall not be used within the cross-section of precast box structures.

SECTION 714, BEGIN LINE 136, DELETE AND INSERT AS FOLLOWS:

(c) Working Drawings

Working drawings shall be submitted in accordance with 105.02 for:

1. fabrication of a precast reinforced concrete box structure greater than 12 ft span,
2. a box structure of a size not ~~described~~ shown in ASTM C1577, Table 1,
3. headwalls,
4. wingwalls, and
5. footings.

Design calculations shall be submitted with the working drawings. *Design calculations will not be required for box structures of a size shown in Table 1 of ASTM C1577.* Detailed plans for falsework and centering will not be required. Working drawings shall include *notes indicating design assumptions, applicable design codes, and material requirements*, all details, dimensions, and quantities necessary to construct the structure, headwalls, wingwalls, or footings and shall include, but not be limited to, the following information.

1. Structure span and rise.
 2. Structure section details showing all concrete dimensions, ~~and reinforcement requirements~~ *joint details, locations and details of lifting devices or inserts, locations and details of pre or post-installed anchorages, concrete clear cover, size and spacing of reinforcing bars or WWR, and reinforcing bar bending diagrams.*
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