

## **SECTION 542 AND SECTION 550 – JOINT TIES FOR CONCRETE PIPE (LCDOT)**

Effective: January 1, 2008

Revised: May 19, 2014

**Description:** This work shall consist of furnishing and installing joint ties for concrete pipe culverts and/or concrete storm sewers.

**Materials:** The steel threaded rod, eye bolts, sleeve nuts, hex nuts, and washers, shall meet the requirements of ASTM A 307. They shall be zinc-coated according to AASHTO M 232 or AASHTO M 298, Class 50. The galvanized coat shall be a maximum of 6 mils thick.

The steel cast-in-place inserts shall be zinc-coated according to AASHTO M 232, AASHTO M 298, Class 50 with galvanizing not to exceed 6 mils, or ASTM B 633 SC 3.

**General:** The installation of pipe culvert shall be according to Section 542 of the “Standard Specifications” and the installation of storm sewers shall be according to Section 550 of the “Standard Specifications” with the addition of the following:

*The work shall include the installation of joint ties. The joint ties shall be installed according to the LCDOT standard LC5402 JOINT TIES FOR CONCRETE PIPE, included in the plans. The ties shall be installed at the locations as shown on the standard and/or as directed by the Engineer.*

**Basis of Payment:** The work will not be paid for separately. For proposed culverts and/or storm sewer the cost of furnishing and installing the ties, including all required materials and labor, shall be included in the contract unit price of the concrete PIPE CULVERTS and/or concrete STORM SEWERS of the size and type specified. For repairing existing culverts and/or storm sewer the cost of furnishing and installing the ties, including all required materials and labor, shall be included in the contract unit price for REMOVE AND RELAY END SECTIONS.