

Bracketed section numbers refer to the 2006 *Standard Specifications*.

## Section 61 Culvert and Drainage Pipe Joints

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#### 4-6101 General

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Section 61, “Culvert and Drainage Pipe Joints,” of the *Standard Specifications* provides an opportunity for the contractor to choose alternate types of joint systems or couplers used with culvert and drainage pipe that are specified in the following sections of the *Standard Specifications*:

- Section 64, “Plastic Pipe”
- Section 65, “Concrete Pipe”
- Section 66, “Corrugated Metal Pipe”
- Section 69, “Overside Drains”

When joint systems and couplers conforming to the provisions in Section 61 are selected, the contractor must provide test results or a mathematical analysis of the joint materials.

#### 4-6102 Before Work Begins

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Before work begins, do the following:

- Verify that Form CEM-3101, “Notice of Materials to Be Used,” includes all pipe joint materials. Refer to Section 6-202, “Responsibilities for Acceptance of Manufactured or Fabricated Materials and Products,” of this manual for additional information.
- Upon delivery of the materials for pipe joints and couplers, note whether the materials are identified by marks or inspection tags.
- Ensure that the Office of Materials Engineering and Testing Services (METS) has inspected and released the pipe joint and coupling material.
- If the contractor has chosen to supply material specified in Section 61, “Culvert and Drainage Pipe Joints,” of the *Standard Specifications*, and the material has been released, METS will have received all paperwork including certificates of compliance, test results, and mathematical analysis.
- Review contract requirements for designated culverts and drainage structures that will require field leakage testing. Where field leakage testing is shown, ensure the contractor submits test procedure, leakage calculations for exfiltration and infiltration tests, and repair procedures for sections that fail testing.

#### 4-6103 During the Course of Work

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Various sections of this manual describe the procedures for inspecting the types of culvert and drainage pipe identified in this section. Ensure that the correct

types of joints or couplers are used and any required field leakage testing for watertightness is performed as specified.

**4-6104  
Measurement and  
Payment**

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The payment for pipe joints and couplers is normally included in the contract prices paid for the various types and sizes of culvert and drainage pipe.

Refer to Section 61-1.04, "Payment," of the *Standard Specifications* for information on payment of culvert and drainage pipe joints.