

ITEM 106 CONTROL OF MATERIAL

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106.01 Source of Supply and Quality Requirements. The materials used on the Work shall meet all requirements of the Contract. In order to expedite the inspection and testing of materials, the Contractor shall notify the Engineer of the proposed sources of materials prior to delivery. At the option of the Engineer, materials may be inspected at the source of supply before delivery is started. If it is determined by the Engineer that sources of supply for previously approved materials do not produce specified products, the Contractor shall furnish materials from other sources without adjustment to the Contract Sum or Time.

The Contractor shall furnish or cause to be furnished to the Engineer delivery tickets or documents for all materials to be incorporated in the Work, which tickets or documents shall describe in detail the type, size, specification or data, fully denoting the materials being delivered.

106.02 Samples, Tests, Cited Specifications. All materials will be inspected, tested and compliance determined by the Engineer before incorporation into the Work. The City may sample and test materials or require certifications. Unless otherwise designated, tests in accordance with AASHTO, ASTM or other methods on file at the Laboratory will be made by and at the expense of the City. Samples will be taken by a qualified representative of the City.

All materials being used are subject to inspection, test or rejection at any time prior to incorporation into the Work. Copies of all tests will be furnished to the Contractor's representative. The Contractor, in all cases, shall furnish the required samples and specified material certifications at no expense to the City.

Transports and distributors hauling bituminous material shall be equipped with an approved submerged bituminous material sampling device.

If, in the judgment of the Engineer, the quantity used of any one material is so inconsequential as to not warrant testing in accordance with the minimum requirements for sampling materials in Section 700, verification of the quality of the material may be covered by a Field Inspection Report of Materials, prepared by the Engineer.

106.03 Small Quantities and Materials for Temporary Application. The Engineer may accept small quantities and materials for temporary application that are not intended for permanent incorporation into the Work. The Engineer may accept these small quantities and materials for temporary application in either of the following cases:

- A. Where similar materials from the same source have recently been approved.

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- B. Where the materials, in the judgment of the Engineer, will serve the intended purpose.

106.04 Plant Sampling and Testing Plan. The Engineer or an authorized representative may undertake the inspection of materials at the source.

In the event plant sampling and testing is undertaken, the Contractor and its material provider shall meet the following conditions:

- A. The Engineer shall have the cooperation and assistance of the Contractor and the producer with whom the Contractor has contracted for materials.
- B. The Engineer or an authorized representative shall have full entry at all times to such parts of the plant as may concern the manufacture or production of the materials being furnished.
- C. If required by the Engineer, the Contractor shall arrange for an approved building for the use of the Inspector. The building should be located conveniently near the plant and independent of any building used by the material producer.
- D. Adequate safety measures at the plant shall be provided and maintained.

The City reserves the right to retest all materials that have been tested and accepted at the source of supply before their incorporation into the Work. After the approved materials have been delivered to the site, the City may reject all materials that, when retested, do not meet the requirements of the Contract Documents or those established for the specific project.

106.05 Storage of Materials. Materials shall be so stored as to assure the preservation of their quality and fitness for the Work. Stored materials, even though approved before storage, may again be inspected prior to their use in the Work. Stored materials shall be located so as to facilitate their prompt inspection. Approved portions of the right-of-way may be used for storage purposes and for the placing of the Contractor's plant and equipment, but any additional space required therefore must be provided by the Contractor at no expense to the City. Private property shall not be used for storage purposes without written permission of the owner or lessee, and if requested by the Engineer copies of such written permission shall be furnished. All storage sites shall be restored to their original condition by the Contractor at no expense to the City and the Contractor shall defend, indemnify and hold harmless the City as provided in 107.24 relating to their contract or permission statement.

106.06 Handling of Materials. All materials shall be handled in such manner as to preserve their quality and fitness for the Work. Aggregate shall be transported from the storage site to the project in tight vehicles so constructed as to prevent loss or segregation of materials after loading and measuring in order that there may be no inconsistencies in the quantities of materials intended for incorporation in the Work as loaded, and the quantities as actually received at the place of operations.

106.07 Unacceptable Materials. All materials not conforming to the requirements of the Contract Documents at the time they are used shall be considered unacceptable and shall be removed immediately from the site of the Work unless otherwise instructed by the Engineer. No previously identified unacceptable materials, the defects of which have been corrected, shall be used until approval has been given. Upon failure on the part of

the Contractor to comply immediately with any order of the Engineer made under the provisions of this Section, the Engineer shall have authority to remove and replace defective materials and to deduct the cost of removal and replacement from any monies due or to become due to the Contractor pursuant to 109.14.

106.08 City-Furnished Materials. The Contractor shall furnish all materials required to complete the Work, except when otherwise provided in the Contract Documents.

Materials furnished by the City will be delivered or made available to the Contractor at the points specified in the Contract Documents.

The cost of handling and placing all materials after they are delivered to the Contractor shall be considered as included in the Contract Price for the item in connection with which they are used.

The Contractor shall be responsible for all delivered materials, and deductions will be made from any monies due the Contractor to make good any shortages and deficiencies, from any cause whatsoever, and for any damage which may occur after such delivery, and for any demurrage charges.