

**SECTION 32 14 16
BRICK UNIT PAVING**

PART 1 - GENERAL

1.1 DESCRIPTION

The requirements for brick pavers, set in mortar on a rigid base, are specified in this section.

1.2 RELATED WORK

- A. Concrete Substrate: Section 32 05 23, CEMENT AND CONCRETE FOR EXTERIOR IMPROVEMENTS.
- B. See drawings for the paving pattern.

1.3 SUBMITTALS

- A. Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
- B. Samples:
 - 1. Five individual samples of brick showing extreme variations in color and texture.
 - 2. Two bar samples of colored mortar.
- C. Test Samples: Five random bricks taken from the work site by the Resident Engineer for testing, to verify brick meets ASTM C67 freeze thaw tests specified.

1.4 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. Deliver masonry materials in original sealed containers marked with name of manufacturer and identification of contents.
- B. Store masonry materials under waterproof covers on planking clear of ground, and protect from handling damage, dirt, stain, water and wind.

1.5 APPLICABLE PUBLICATIONS

- A. The publications listed below form a part of this specification to the extent referenced. The publications are referenced in the text by the basic designation only.
- B. American Society for Testing and Materials (ASTM):
 - C144-04.....Aggregate for Masonry Mortar
 - C150-07.....Portland Cement
 - C270-08.....Mortar for Unit Masonry
 - C902-09.....Pedestrian and Light Traffic Paving Brick

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Paving Brick: ASTM C902; Class SX, Type I.
- B. Sand: ASTM C144.
- C. Portland Cement: ASTM C150.

D. Coloring Pigments: Pure mineral pigments, lime proof and non-fading; added to mortar by the manufacturer. Job colored mortar is not acceptable.

E. Color to match existing. Present options to Architect for approval.

2.2 MORTAR

ASTM C270, Type S. No admixtures permitted. Type N lime is not permitted.

PART 3 - EXECUTION

3.1 INSPECTION

Ensure that substrate is without voids or projections that would interfere with installation of brick paving.

3.2 ALLOWABLE TOLERANCES

A. Paved surface true to plane within 3 mm (1/8 inch) in 3 m (10 feet) not cumulative.

B. Joint width deviation not greater than 10 percent of dimension shown.

3.3 APPLICATION

A. General: Do not use bricks with chips, cracks, discoloration, or other visible defects.

B. Installation with Portland Cement Mortar:

1. Install brick in full bed joint. Remove excess mortar. Strike joints flush with top surface of brick and tool slightly concave.

2. Cure mortar by maintaining in a damp condition for seven days.

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