# SECTION 32 14 16

# BRICK UNIT PAVING

## PART 1 - GENERAL

### 1.1 DESCRIPTION

A. 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 03 30 00, CAST-IN-PLACE CONCRETE and Section 03 93 00, CONCRETE REHABILITATION.

B. Color and texture of mortar and brick: To match existing.

C. See drawings and existing conditions 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
C150-05.....Portland Cement
C270-05.....Mortar for Unit Masonry
C902-05.....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 to match existing installation. Job colored mortar is not acceptable.

## 2.2 MORTAR

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

# PART 3 - EXECUTION

## 3.1 INSPECTION

A. 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 1/8 inch 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.

END OF SECTION 32 14 16