

## SECTION 347

### BRICK SIDEWALK

#### 347.1 GENERAL

The sidewalk bricks and their installation, specified in this section, are intended for use as a surface material to support pedestrian traffic.

#### 347.2 REFERENCES

##### 347.2.1 ASTM

C 33  
C 902  
D 1557

##### 347.2.2 This Publication:

SECTION 101  
SECTION 108

#### 347.3 CERTIFICATION

Before installation of the paving bricks the ENGINEER will be furnished with a certification from the brick manufacturer that the paving brick meets these specifications.

#### 347.4 MATERIALS

347.4.1 SAND: Sand for the setting bed shall conform to ASTM C 33 for fine aggregate.

347.4.2 BRICK: Classification of pedestrian and light traffic paving brick shall conform to Class SX for weather and Type I for traffic, as defined in ASTM C 902 and Section 108. Color and size of the brick shall be designated on the construction plans.

347.4.3 CONCRETE: Concrete for dividers and footings shall be 3000 psi and shall conform to the specifications in Section 101.

#### 347.5 MATERIAL HANDLING

347.5.1 Sand shall be stored in stock piles on dry ground and shall be segregated from other materials to prevent mixing.

347.5.2 Brick shall be stored on dry ground or on pallets and shall be protected during storage and handling to prevent chipped edges.

#### 347.6 INSTALLATION

347.6.1 SUBGRADE: The subgrade will be graded and shaped to the lines shown on the construction plans. Compaction of the subgrade shall be 90 percent of maximum density, as determined in ASTM D 1557, for a depth of 6 inches.

#### 347.6.2 EDGE CURBS:

347.6.2.1 Either concrete or soldier course brick headers may be used along the longitudinal and transverse edges of the sidewalk to confine the sand and bricks.

347.6.2.2 Soldier course brick shall be embedded 4 inches into a concrete footing. Dimensions of footing will be shown on the construction plans.

#### 347.6.3 BEDDING:

347.6.3.1 Sand Setting Bed: The sand bedding shall be confined by the headers and shall be 4 inches thick after compaction and grading. Sand bed material shall be compacted to a maximum density of 90 percent as determined by ASTM D 1557.

3.4.7.6.3.2 Concrete Bedding: The concrete portion of the bedding shall conform to Section 101 for sidewalks and shall be 4 inches thick. The brick may then be placed in fresh mortar (1/2 inch thick) or asphalt paving material (1/4 inch to 3/8 inch thick). Mortaring between the brick surfaces is optional and should be shown on the plans as a requirement.

347.6.4 BRICK: Brick shall be laid on a smooth sand setting bed, with side surfaces in close contact. Lay brick flat in running bond, parallel to curbs or headers, except where otherwise shown. Joints in the vicinity of cut brick shall be adjusted such that no units smaller than half-brick shall be used. After an area of brick is laid, the brick shall be tamped into the sand bed to obtain a uniform top surface, over compacted sand bed. Top surface shall accurately match the lines and grades of curbs, headers and other construction. After the surfaces are uniform and compact, fine sand shall be swept over the surface, repeating this operation until joints are filled and all brick are firmly bedded.

347.6.5 CROSS-SLOPE OF SIDEWALK: The cross-slope of the brick sidewalk shall be the same as for concrete sidewalks, namely 1/4 of an inch per foot.

#### 347.7 MEASUREMENT AND PAYMENT

Brick sidewalks shall be measured by the square foot. Payment shall be made at the unit price per square foot as specified in the Bid Proposal, and shall include subgrade and sand bedding preparation, headers and brick with installation. Or if required, concrete bedding and setting material shall be included in the unit price.