

## SECTION 608 - SIDEWALKS

608.01 Description. This work includes constructing bituminous or concrete sidewalks according to the contract. \*|

608.02 Materials. Materials shall conform to the following: \*|

Bed Course Material for Sidewalks and Curbing 703.16(A)

Joint Fillers 705.01

Reinforcing Steel 709.01

Concrete for sidewalks shall conform to Section 601 - Structural Concrete and shall be Class B. |

Bituminous concrete for sidewalks shall conform to Section 401 - Asphalt Concrete Pavement and shall be Type V. |

Concrete and bituminous mixes will be subject to inspection and tests at the mixing plants for compliance with quality requirements.

The condition of materials will be subject to inspection for acceptance before or during incorporation of materials into the work. \*|

608.03 Construction Requirements

(A) Concrete Sidewalks. The Contractor shall place concrete sidewalks four (4) inches thick either reinforced or unreinforced shown in the contract. \*|

(1) Preparation. The Contractor shall shape and compact the foundation to a firm even surface conforming to the section shown in the contract. The Contractor shall remove and replace soft and yielding materials with acceptable material. \*|

(2) Forms. Forms shall be of wood or metal and shall extend for the full depth of the concrete. Forms shall be straight, free from warp and of sufficient strength to resist the pressure of the concrete without springing. Bracing and staking of forms shall be such that the forms remain in both horizontal and vertical alignment until their removal.

(3) Placing Concrete. The Contractor shall moisten the foundation thoroughly immediately before the Contractor places the concrete. The Contractor shall place concrete according to Section 503 - Concrete Structures. \*|

(4) **Finishing.** The Contractor shall work the surface with a wooden float and broom finished. The Engineer will not permit plastering of the surface. \*

The Contractor shall edge the outside edges of the slab and joints with a quarter (1/4) inch radius edging tool. \*

The surface of the sidewalk shall be a true plane with a quarter (1/4) to twelve (12) slope toward the roadway. |

(5) **Joints.** The Contractor shall form the construction joints around appurtenances such as manholes and utility poles extending into and through the sidewalk. The Contractor shall install premolded expansion joint filler quarter (1/4) inch thick in these joints. The Contractor shall install expansion joint filler of half (1/2) inch thickness between concrete sidewalks, fixed structures such as a building or bridge, and at the curb returns. The expansion joint material shall extend for the full depth and width of the sidewalk, and the top edge shall be quarter (1/4) inch below the surface of the sidewalk. \*

The Contractor shall install transverse weakened plane joints in line with joints in the abutting curb and/or gutter. If no abutting curb and/or gutter, the Contractor shall space the weakened plane joints at intervals of twenty (20) feet. The Contractor shall construct transverse weakened plane joints perpendicular to the length of the sidewalk and form either by a jointing tool or by sawing. These transverse weakened plane joints shall extend into the concrete for at least one-third (1/3) the depth and shall be approximately one-eighth (1/8) inch wide. \*

The Contractor shall further divide the sidewalk into sections by quarter (1/4) inch deep transverse grooves. The Contractor shall space these transverse grooves equally between transverse weakened plane joints so that the sections are not more than the sidewalk width or as ordered. \*

(6) **Curing.** The Contractor shall cure the concrete for at least seventy-two (72) hours. Curing shall be by moist burlap or mats or by other accepted methods. During the curing period, the Contractor shall exclude pedestrian and vehicular traffic. The Contractor shall exclude the vehicular traffic for such additional time as the Engineer may order. \*

**(B) Bituminous Sidewalks.**

(1) **Preparation and Forms.** Preparation and forms shall conform to Subsections 608.03(A)(1) - Preparation and 608.03(A)(2) - Forms. |

(2) **Bed Course.** The Contractor shall place the bed course material in layers not exceeding four (4) inches in depth. The Contractor shall compact each layer thoroughly. \*

(3) **Placing Bituminous Sidewalk Material.** The Contractor shall place bituminous sidewalk material on the compacted bed course in one (1) or more courses shown in the contract to give the required depth when rolled. The Contractor shall compact by a hand operated or power roller of a type and weight acceptable. In areas inaccessible to the roller, the Engineer will permit hand tamping. The Contractor shall compact bituminous sidewalk material uniformly. \*

The compaction requirement shall be ninety (90) percent of the maximum theoretical density using AASHTO T 209. The Contractor shall increase the asphalt content at least half (1/2) percentage point above that used for asphaltic concrete pavements. \*

**608.04 Method of Measurement.** The Engineer will measure concrete sidewalks by the square yard of finished surface. \*

The Engineer will measure bituminous sidewalks by the square yard complete in place. \*

The Engineer will measure ramps as part of the sidewalk per square yard if the proposal does not show wheelchair ramps. \*

**608.05 Basis of Payment.** The Engineer will pay for the accepted quantities of concrete sidewalk at the contract unit price per square yard complete in place. \*

The Engineer will pay for the accepted quantities of bituminous sidewalk at the contract unit price per square yard complete in place. \*

The Engineer will pay for ramps as part of the sidewalk per square yards if the proposal does not show wheelchair ramps. \*

The price shall be full compensation for excavating; backfilling; installing reinforcing steel; placing and compacting bed course material; installing expansion joint material, weakened plane joint; furnishing labors, materials, equipment, tools, and other incidentals necessary to complete the work. \*

The Engineer will make payment under: \*

Pay Item	Pay Unit
Concrete Sidewalk	Square Yard
Bituminous Sidewalk	Square Yard