

SECTION 02776

CONCRETE SIDEWALK, MEDIAN FILLER, AND FLATWORK

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Materials and procedures for constructing concrete sidewalk, median filler, and flatwork.

1.2 RELATED SECTIONS

- A. Section 02324: Compaction.
- B. Section 02330: Embankment.
- C. Section 02721: Untreated Base Course.
- D. Section 02776: Concrete Sidewalk and Median Filler.
- E. Section 03055: Portland Cement Concrete.
- F. Section 03152: Concrete Joint Control.
- G. Section 03310: Structural Concrete.
- H. Section 03390: Concrete Curing.

PART 2 PRODUCTS

2.1 PORTLAND CEMENT CONCRETE

- A. Class AA(AE). Refer to Section 03055.
- B. Substitute higher class of concrete if desired.
- C. For flatwork: High purity, chemically-inert, unfading, and alkali-fast synthetic pigment coloring material.

2.2 EXPANSION JOINT FILLER

- A. Prefomed material. Refer to Section 03152.

2.3 UNTREATED BASE COURSE

- A. Untreated Base Course. Refer to Section 02721.

2.4 EMBANKMENT MATERIAL

- A. Refer to Section 02330.

PART 3 EXECUTION

3.1 PREPARATION

- A. Construct subgrade to plan elevations and following Section 02330.
- B. Place and compact fill material following Section 02324.
- C. Concrete flatwork coloring:
 - 1. Conform to the samples provided by the Engineer.
 - 2. Provide a matching sample, 1 ft² for the Engineer's approval before placing concrete.
 - 3. Thoroughly mix color pigment in the concrete before placing.
- D. Forms:
 - 1. Use approved concrete forms on all curves that transition smoothly from curves to straight section. Keep forms free of flat sections and sharp bends.
 - 2. Use wood, metal, reinforced fiberglass, or plastic forms free of warps or bends. Anchor securely in place.

3.2 PLACING AND FINISHING CONCRETE

- A. Dampen the subgrade just before concrete placement.
- B. Hand methods of strike-off and consolidation are permitted.
- C. Finish the surface with a moist wooden float.
- D. Round edges to a 1/2 inch radius.

- E. Brush to a transverse broom finish.

3.3 EXPANSION AND CONTRACTION JOINTS

- A. Place joints perpendicular to the subgrade and at right angles to the longitudinal axis of the sidewalk or median.
- B. Contraction Joints:
 - 1. 1/8 inch to 3/16 inch thick steel plates.
 - 2. Space the joints 10 feet apart.
 - 3. Remove the steel plates as soon as the concrete takes an initial set.
- C. Expansion Joints:
 - 1. 1/2 inch thick premolded expansion joint filler. Refer to Section 03152, Part 2, article, "Preformed Elastomeric Joint Sealants."
 - 2. Place expansion joint every 30 ft.
 - 3. Place joint filler between the sidewalk or median filler and the curb or adjacent pavement, sidewalk, driveway pavement, or structure.

3.4 CONCRETE CURING AND PROTECTION

- A. Refer to Section 03390, Part 3, article, "Curing Structures."

END OF SECTION