

Division 22: Curb & Gutter and Other Incidental Concrete

22.01 SCOPE: The Contractor shall furnish all labor, equipment, and supplies, and shall perform all work necessary to construct curb, curb and gutter, paved ditch, sidewalk, concrete entrances, handicap ramps, and concrete median barrier as per the construction plans.

22.02 MATERIALS:

- A. Joint Filler: Where expansion joints are required, preformed joint filler shall be used in accordance with Section 212 of VDOT Road and Bridge Specifications.
- B. Curing Materials: Shall consist of waterproof paper, polyethylene sheeting, liquid membrane seal or water in accordance with VDOT Road and Bridge Specifications Sections 220.02.
- C. Reinforcing Steel: Shall be Grade 40 or 60 and conform to VDOT Road and Bridge Specifications Section 223.
- D. Portland Cement Concrete: Shall be Class A-3 air entrained (3000 psi compressive strength at 28 days) concrete as per VDOT Road and Bridge Specifications Section 217 and in accordance with AASHTO M-85 and AASHTO M-154 for air-entraining concrete admixtures.

22.03 EXECUTION:

- A. General:
 - 1. Concrete driveways must be built to a minimum thickness of seven (7) inches within the right-of-way and four (4) inches outside of the right-of-way.
 - 2. Curb, curb and gutter, paved ditch, sidewalks and handicap ramps must be constructed in accordance with the applicable standards of Volume II of the City's Public Facilities Manual and in accordance with the construction plans. Concrete Median Barriers shall be as per the VDOT standard specified and/or shown on the construction plans.
- B. Construction Methods:
 - 1. Curbs, curb and gutter, and paved ditch must be constructed in accordance with the guidelines of VDOT Road and Bridge Specifications Section 502.03 (a). Concrete median barriers must be constructed in accordance with the plans and VDOT Road and Bridge Specifications Section 502.03 (d). Concrete Entrances and handicap ramps must be constructed in accordance with the guidelines of VDOT Road and Bridge Specifications Section 502.03 a & b while sidewalks must conform to the guidelines of VDOT Road and Bridge Specifications Section 505.03. All rough grading must be completed to the right-of-way limits prior to the installation of curb and gutter.
 - 2. Any curb and gutter or other concrete item found defective as to location, elevation, workmanship or structural failure shall be removed to the nearest acceptable construction joint as directed by the Engineer and replaced by the Contractor at no additional expense to the City.

22.04 MEASUREMENT AND PAYMENT:

- A. Curb, curb and gutter, paved ditch, entrances, sidewalks, and concrete median barrier will not be measured in-place but will be based on the plan quantities only. Measurement of concrete entrances will be from the flow line to its termination into the site. The lineal feet of curb gutter will be measured through the proposed entrance.

- B. Curb, curb and gutter, and concrete median barrier will be paid based on the price per lineal foot as per the Unit Price Table.
- C. Paved Ditch, concrete entrances and sidewalk will be paid based on the price per square yard as per the Unit Price Table.
- D. Handicap ramps will be measured and paid based on the price per each as shown in the Unit Price Table.

