

SECTION 204 – CONCRETE CURB & GUTTER

1. GENERAL

Concrete curb and gutter shall conform to the shape, dimensions, lines and grade called for by the Drawings in accordance with the latest version of Section 825 of the Kansas Department of Transportation (KDOT) Standard Specifications or as amended herein. Hand vibrators shall be used to consolidate concrete before pulling up to form the back side when curb machines or vibrating forms are not used.

2. STANDARD CURB AND GUTTER

The curb and gutter shall be divided into stones and when adjacent to concrete pavement, the stones shall match the pavement joints. Curb shall be tied to the concrete pavement with #4 deformed bars or poured monolithic. When adjacent to asphalt pavement, the stones shall be as near as possible to 5-foot lengths. Joints between stones shall be made by sawing through the curb to a depth of not less than 2-1/2." Return curbs on intersecting streets shall be formed to match existing curbs, using a transition section not less than 3 feet long or as otherwise detailed.

3. EXPANSION JOINTS

Preformed expansion joint material for monolithic placement shall be cut to fit the curb and be the same thickness and in the same location as the pavement expansion material. No reinforcement or tie bars in curb shall pass through the joint. Edges of all joints shall be finished with a 1/4 inch radius edger. Preformed joint filler, 3/4" in thickness, shall be placed wherever new work joints existing work; at the ends of all driveways, alley, and street returns where ends meet existing construction; and at intervals of not more than 100 feet for monolithic straight runs.

4. FINISHING

Back edge shall be finished with a 1/4 inch radius edger. The concrete curb and gutter shall then be broom finished to the texture extending out onto pavement surface to match finish. A wood float finish shall be provided when adjacent to flexible pavement. Gutter flow line shall be finished to a true uniform grade without ridges or water pockets.

Since surface texture is critical to this application and is difficult to quantify, the contractor shall construct a test section for approval by the Inspector. The test section shall be placed in one of the areas for permanent improvements designated in the plans in the event that the section passes inspection. If the test section fails to achieve the Inspector's approval, the test section shall be removed and replaced at the contractor's expense. The approved test section shall serve as the standard against which all other like improvements on the project are accepted or not accepted. Failure to gain acceptance of the test section prior to constructing additional improvements shall be the sole responsibility of the contractor.

5. CURING AND FROST PROTECTION

All curing and frost protection methods shall conform to Section 202, "Concrete" of the Standard Specifications for the City of Salina.

6. BACKFILLING

Segregated or “honeycombed” curb concrete shall be grouted before backfilling. The area adjacent to the curb and curb and gutters shall be backfilled with approved material to the top edges of the curbs or gutters or to the elevations shown on the plans.

7. TESTING

The Engineer reserves the right to require any testing of materials deemed necessary. Testing concrete samples for percent air, slump, unit weight, and gradation to verify requirements have been met shall be paid for by the City of Salina.