

**650.1 DESCRIPTION**

This work consists of constructing concrete curb and gutter.

**650.2 MATERIALS**

Materials shall conform to the following Sections.

**A. Concrete:** Class M6 (I28), Section 462.

**B. Expansion Joint Filler:** Section 860.

**C. Curing Compound:** Section 821.

**D. Reinforcing Steel:** Section 1010.

**650.3 CONSTRUCTION REQUIREMENTS**

The foundation shall be excavated, shaped, and compacted to a firm, uniform bearing surface. Unsuitable foundation material shall be removed and replaced as directed. The foundation shall be thoroughly moistened immediately prior to placing concrete.

Granular material shall be furnished, placed, and compacted to the required depth.

The forms shall be full depth, rigid, unyielding, and mortar tight. The forms shall be securely staked, braced, and tied to the required line and grade.

In lieu of construction using fixed side forms, concrete may be placed and formed to the required shape by using an approved extrusion machine. When machine placement is used, the Engineer may permit modification of consistency requirements.

The exposed surfaces of the curb and gutter shall be finished smooth and even.

Edges of gutter and the top face edges of the curb shall be finished with an approved finishing tool.

The top surface of the curb and gutter shall be brushed or broomed to slightly roughen the surface and remove the finishing tool marks.

All honeycombed surfaces shall be corrected to the satisfaction of the Engineer by using a grout composed of one part cement and two parts sand. Severely honeycombed areas shall be removed and replaced at the Contractor's expense.

Joints shall be constructed at the locations and of the dimensions shown on the plans or as directed. When PCC pavement is adjacent to the curb and gutter, the joints shall match the contraction joints of the pavement.

When curb and gutter is placed prior to surfacing, the Contractor shall be responsible to provide drainage of the roadway.

Concrete shall be protected and cured in accordance with Section 460.3, except the minimum curing time shall be 72 hours.

After the curing period, the area adjacent to the curb and gutter shall be filled to the required elevation with suitable material and the material shall be satisfactorily compacted.

#### **650.4 METHOD OF MEASUREMENT**

Concrete curb, gutter and combined curb and gutter will be measured to the nearest foot (0.1 meter). Measurement for concrete curb will be on the inside bottom face of the curb. Measurement for separate gutters and combined curb and gutter will be on the inside edge next to the pavement. Deductions will not be made for lengths of drop inlets, grates, etc., or for the tapering of curb for entrances. Separate measurements will be made for the various types specified and constructed.

#### **650.5 BASIS OF PAYMENT**

Concrete curb, gutter and combined curb and gutter will be paid for at the contract unit prices per foot (meter) for the types constructed.

Payment will be full compensation for furnishing materials, the expansion joints, steel reinforcement, forms bracing, excavation, backfill, labor, equipment, and incidentals necessary.