PART ONE - GENERAL

1.1 Description Of Work - This item shall govern for curb and gutter, with or without reinforcing steel, composed of Portland Cement Concrete constructed on approved subgrade, foundation material or finished surface in accordance with approved lines and grades in conformance with details shown on the plans. Determination of lines and grades shall be the responsibility of the CONTRACTOR, subject to approval of the OWNER.

PART TWO - PRODUCTS

2.1 Concrete - Concrete used shall be Class "A" Concrete. Reinforcing steel, if required, shall conform to the requirements set forth on the plans. Expansion joint filler shall be premolded material meeting the requirements of Specification Item, CONCRETE PAVEMENT (CLASS "A" CONCRETE).

2.2 Curing and Admixtures - Membrane curing materials shall meet the requirements of TxDOT ITEM 526, MEMBRANE CURING, latest edition. Admixtures shall meet the requirements of TxDOT ITEM 437, CONCRETE ADMIXTURES, latest edition.

PART THREE - EXECUTION

3.1 Subgrade Preparation - The subgrade or foundation shall be shaped to line, grade and cross-section, and if considered necessary by the Engineer, hand tamped and sprinkled. If dry, the subgrade or foundation material shall be sprinkled lightly immediately before concrete is deposited thereon.

3.2 Forming - Outside forms shall be of wood or metal, of a section satisfactory to the Engineer, straight, free of warp and of a depth equal to the depth required. They shall be securely staked to line and grade and forms for curbs shall be of approved material, shall be of such design so as to provide the curb required, and shall be rigidly attached to outside forms.

3.3 Reinforcing - The reinforcing steel, if required, shall be placed in position as required by the plans. Care shall be exercised to keep all steel in its proper place.

3.4 Placement - For extruded concrete construction, the concrete shall be placed by an extrusion machine approved by the Engineer. When placement is directly on subgrade or foundation materials the foundation shall be hand tamped and sprinkled if considered necessary by the Engineer.

The line shall be maintained from a guideline set by the Contractor from survey marks established by the Engineer. The outline shall strictly conform to the details shown on the plans. The forming tube of the extrusion machine shall be readily adjustable vertically during the forward motion of the machine to provide required variable heights necessary to conform to the established grade line. To provide a continual check on the grade, a pointer or gauge shall be attached to the machine in such a manner that a comparison can be made between the extruded work and the guideline. Other methods may be used if approved in writing by the Engineer.

The approved mix shall be fed into the machine in such a manner and at such consistency that the finished work will present a well compacted mass with a surface free from voids and honeycomb and true to established shape, line and grade.

Any additional surface finishing specified and/or required shall be performed immediately after extrusion. Joints shall be constructed at such locations as directed by the Engineer and to the details shown on the plans.

3.5 Finishing - After the concrete has been struck off and after it has become sufficiently set, the exposed surfaces shall be thoroughly worked with a wooden float. The exposed surfaces shall be rounded by the use of an edging tool to the radius indicated on plans. All exposed surfaces shall be brushed to a smooth and uniform surface.

3.6 Joints - Curb and gutters shall be placed in sections of 50 feet maximum length unless otherwise shown on the plans. Joints shall be constructed at such locations and of the type as directed and specified on the plans. Expansion joints shall be placed at all tie-ins to existing curb and gutters

PART FOUR - MEASUREMENT AND PAYMENT

4.1 Measurement - Accepted work and materials as prescribed by this item for concrete curb and gutter will be measured by the linear foot, complete in place.

4.2 Payment - The work performed and materials furnished as prescribed by this item shall be paid for at the unit price bid for "CONCRETE CURB AND GUTTER" of the type indicated on the plans. The price for each item shall be full compensation for removals, excavation, cleaning and compacting the base or subgrade, furnishing and applying of water, mortar, adhesives or other material, including reinforcing steel and dowel bars, if required, for furnishing, loading and unloading, storing, hauling and handling all ingredients, including all freight and royalty involved, for mixing, placing, finishing, cleaning and sealing joints and curing all concrete, for furnishing all materials for sealing joints and placing joints and joint filler material in proper position, and for all

manipulations, labor, equipment, appliances, tools, traffic provisions and incidentals necessary to complete the work.