

CITY OF SAN ANGELO**ITEM 531****SIDEWALKS****531.1. DESCRIPTION.**

This Item shall govern for Portland Cement Concrete sidewalks constructed on approved subgrade, foundation material or finished surface in accordance with the lines and grades established by the City and in conformance with details shown on the Plans.

531.2. MATERIALS.

All materials shall conform to the pertinent requirements of the following items:

- Item 360, "Concrete Pavement"
- Item 420, "Concrete Structures"
- TxDOT Item 437, "Concrete Admixtures"
- Item 421, "Portland Cement Concrete"
- Item 440, "Reinforcing Steel"
- TxDOT Item 526, "Membrane Curing"

Concrete used in conventionally formed and slipformed construction shall be Class "A" concrete or concrete as specified for concrete pavement. Unless otherwise shown on the Plans, concrete for extruded construction shall be Class "A", except that the coarse aggregates shall meet the requirements of grade 8. Other grades of coarse aggregate may be substituted, if approved by the City.

531.3. CONSTRUCTION METHODS.

(1) Conventionally Formed Concrete. Prior to sidewalk construction, the subgrade, foundation or pavement surface shall be shaped to the line, grade and cross section shown on the Plans, and if considered necessary by the City, hand tamped and sprinkled. When directed by the City, the subgrade or foundation material shall be sprinkled lightly immediately before concrete is deposited thereon.

Forms, where needed, shall be of wood or metal, of a section satisfactory to the City, straight, free of warp and of the depth required. They shall be securely staked to line and grade and maintained in a true position during the placing of concrete.

The reinforcing steel shall be placed in position as shown on the Plans. Care shall be exercised to keep all steel in its proper location during concrete placement.

Sidewalks shall be constructed in sections of the lengths shown on the Plans. Unless otherwise shown on the Plans or approved by the City, no section shall be less than eight (8) feet or more than 40 feet in length. Sections shall be separated by premolded or board joint of the thickness shown on

the Plans and placed vertically and at right angles to the longitudinal axis of the sidewalk. Where the sidewalk abuts a curb or retaining wall, approved expansion material shall be placed along their entire length. Similar expansion material shall be placed around all obstructions protruding through sidewalks. Sidewalks shall be marked at spacing equal to sidewalk width by the use of approved jointing tools. Each day's production will be terminated at an expansion joint.

(2) Extruded or Slipformed Concrete. Concrete shall be placed with equipment approved by the City. When placement is directly on subgrade or foundation materials, the foundation shall be hand tamped and sprinkled if considered necessary by the City. If the concrete is placed directly on the surface material or pavement, such surface shall be thoroughly cleaned. Concrete 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 the required shape, line and grade.

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

(3) General. The completed work shall be cured for a period of not less than 72 hours by one of the methods specified in Item 420, "Concrete Structures".

Regardless of the method of construction, hand finishing will be permitted. All exposed surfaces shall be brushed to a smooth and uniform surface.

Wheelchair ramps shall be in conformance with the details shown on the Plans.

531.4. MEASUREMENT.

Sidewalks, including any required wheelchair ramps, will be measured by the linear foot or by the square foot of surface area, complete in place.

531.5. PAYMENT.

The work performed and materials furnished in accordance with this Item and measured as provided under "Measurement" will be paid for at the unit price bid for "Concrete Sidewalks" of the width shown on the Plans. This price shall be full compensation for furnishing all materials required; surface preparation of base; and for all manipulations, labor, tools, equipment, and incidentals necessary to complete the work.