

CITY OF NACOGDOCHES
CURB RAMPS

PART ONE - GENERAL

- 1.1 Description Of Work - This item shall govern for the installation of Curb Ramps at locations as specified on plans. All Curb Ramps shall be constructed as shown on the plans and shall meet the American's with Disabilities Act (ADA) criteria.

PART TWO - PRODUCTS

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

Specification Item, "Sidewalks and Driveways"
Specification Item, "Curb and Gutter"
Specification Item, "Concrete Pavement"
Specification Item, "Concrete Pavement - Decorative"
TxDOT Item 421, "Portland Cement Concrete", latest edition
TxDOT Item 437, "Concrete Admixtures", latest edition
TxDOT Item 440, "Reinforcing Steel", latest edition
TxDOT Item 526, "Membrane Curing", latest edition

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 aggregates may be substituted, if approved by the Engineer.

PART THREE - EXECUTION

- 3.1 Slope - Maximum slopes of Curb Ramps shall not exceed 1:12.
- 3.2 Surface - Surface shall consist of an Owner-approved slip-resistant texture or a surface consisting of a light broom finish with transverse grooves 4 inches apart. Surfaces that are finished or grooved in such a manner that permits water accumulation are prohibited.
- 3.3 Color - Ramps shall be of a color that will contrast with the existing adjacent sidewalk meeting the requirements of Specification Item CONCRETE PAVEMENT - DECORATIVE.
- 3.4 Sides Of Curb Ramp - If a curb ramp is located where pedestrians must walk across the ramp, or where it is not protected by handrails, it shall have flared

CITY OF NACOGDOCHES

CURB RAMPS

sides; the maximum slope of the flare shall be 1:10. Curb Ramps with returned curbs may be used where pedestrians would not normally walk across the ramp.

- 3.5 Built Up Ramps - Built up curb ramps shall be located so that they do not project into vehicular traffic lanes.
- 3.6 Marked Crossings - Curb Ramps at marked crossings shall be wholly contained within the markings, excluding any flared sides unless otherwise indicated on drawings.
- 3.7 Diagonal Curb Ramps - If diagonal (or radius type) Curb Ramps have returned curbs or other well defined edges, such edges shall be parallel to the direction of pedestrian flow. The bottom of diagonal Curb Ramps shall have 48 inches of clear space. If diagonal Curb Ramps are provided at marked crossings, the 48 inch clear space shall be within the markings. If diagonal Curb Ramps have flared sides, they shall also have at least a 24-inch long segment of straight curb located on each side of the curb ramp and within the marked crossing.
- 3.8 Minimum Angle - Curb Ramps shall be designed so that the "cradle" will allow wheel chair footrests to clear the adjoining surface during transition. The minimum angle from surface to surface shall be 170 degrees.
- 3.9 Construction - All existing sidewalk and curb area that is to be removed shall be neatly sawcut along intersecting edges where sidewalk and curb is to remain.

Prior to Curb Ramp 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 Engineer, hand tamped and sprinkled immediately before concrete is deposited thereon.

Forms, where needed, shall be of wood or metal, of a section satisfactory to the Engineer, 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. Expansion joints shall be placed between existing concrete and new construction.

The reinforcing steel shall be of the type as indicated on the plans and shall be placed in position as shown on the plans. Care should be taken to keep all steel in its proper location during concrete placement.

The completed work shall be cured for a period of not less than 72 hours.

Care should be taken at all times to prevent accidental harm to pedestrians and/or vehicles. At the end of each work day the area where construction is taking place shall be secured properly with lighted barricades no more than 5 feet apart surrounding the entire work area and should have at least 2 rows of

CITY OF NACOGDOCHES
CURB RAMPS

reflective flagging tape stretched between each barricade or a safety netting surrounding the entire work area.

- 3.10 Clean Up - Clean up shall immediately follow the removal of the forms.

PART FOUR - MEASUREMENT AND PAYMENT

- 4.1 Measurement - Curb Ramps will be measured by the square yard of surface area of completed and accepted work.
- 4.2 Payment - The completed and accepted work performed and materials furnished will be paid for at the unit price bid.. This price shall be full compensation for furnishing all materials required including colored concrete, removal of existing concrete curb and sidewalk, preparation of base, and for all manipulations, labor, materials, tools, equipment, level-up asphalt, clean-up, traffic provisions and incidentals necessary to complete the work described above.