

SECTION 02707 - CHAIN LINK FENCE

PART 1 - GENERAL

1.1 DESCRIPTION

- A. The WORK under this Section includes providing all labor, materials, tools and equipment necessary for furnishing and installing chain link fencing, as shown on the Drawings.

PART 2- PRODUCTS

2.1 MATERIALS

- A. Fencing materials shall conform to AASHTO M 181. Sizes of posts, gate frames, rails and braces shall conform to the dimensions and weights shown in Table No. 1. Portland cement concrete shall conform to Section 03301 – Structural Concrete.

TABLE NO. 1

USE	NOMINAL PIPE SIZE INCHES
End, corner and pull posts for fabric heights: five (5) feet or less	2
Interior bracing for fabric heights: five (5) feet or less	1
Rail and post braces	1-1/4
Intermediate posts for fabric heights: five (5) feet or less	1-1/2

- B. Sizes of posts, gate frames, rails and braces for fabric heights over five feet shall be shown on the Drawings.
- C. Post tops shall consist of ornamental tops. The post tops shall fit over the outside of the posts and shall exclude moisture from the tubular posts.
- D. Stretcher bars shall not be less than 3/16" by 3/4", and shall be of lengths one-inch less than the full height of the fabric with which they are to be used. The stretcher bars shall be arranged for attaching the fabric to all terminal posts by threading through the fabric, by bands, or by other positive mechanical means. One stretcher bar shall be provided for each gate, and end post and two for each corner and pull post.
- E. Ties or clips of adequate strength shall be provided in sufficient number for attaching the fabric and stretcher bars to all terminal posts at intervals not exceeding 15 inches.
- F. Bands or clips of adequate strength shall be provided in sufficient number for attaching the fabric and stretcher bars to all terminal posts at intervals not exceeding 15 inches.

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- G. Posts. Interior posts shall be of the length required for a footing depth of three feet. End posts shall be of the length required for a footing depth of four feet. All posts shall be tubular.
- H. Reinforcing Wires. Top reinforcing wire shall be provided. The reinforcing wires shall be of coiled spring wire not less than seven gauge plus, or minus 0.005-inch in diameter. Ties or clips shall be provided for attaching each wire to the fabric at intervals not exceeding two feet.
- I. Portland cement concrete shall conform to Section 03302 - Concrete Structures.
- J. Mesh and wire size shall be two-inch mesh, 0.148-inch in diameter.

PART 3 - EXECUTION

3.1 GENERAL

- A. All trees, brush, and other obstacles that would interfere with the construction of the fence shall be removed and disposed of as directed by the ENGINEER.
- B. Prior to installing the fence, the existing ground along the line of the fence location shall be graded to a smooth, uniform surface, to the extent that no abrupt changes in grade exist between adjacent fence posts.
- C. All posts shall be set in Portland cement concrete footings. The tops of the footings shall be level with the ground, shall be crowned to provide drainage, and shall be troweled smooth. Concrete footings shall be eight inch diameter. The footings shall be allowed to cure for a period of at least seven days before any stress is applied.
- D. The posts shall be set vertical and shall be of uniform and equal height above the ground, with a maximum horizontal spacing of ten feet, center-to-center. The chain link fabric shall be fastened to the top reinforcing wire, and the lower edge of the fabric shall be fastened to the bottom tension wire.
- E. For fabric heights of six feet or more, a 1 1/4" inch top rail shall be provided. Top rails for fabric heights less than six feet, and intermediate brace rails shall be provided, if shown on the Drawings.
- F. At each location where an electric transmission, distribution or secondary line crosses any of the types of fences covered by these Specifications, the CONTRACTOR shall furnish and install a ground rod and connection to the fence conforming to the requirements of Section Nine of the National Electric Safety Code.
- G. Ground rods and connectors shall be placed at minimum intervals of 400 feet in length, one ground rod with connection to the fence shall be required.
- H. Grading. The fence shall be constructed to follow a smooth profile. Nowhere, however, throughout the fence length shall be the distance between the ground surface and the bottom tension wire be greater than four inches, nor less than two inches. Where excavation is necessary to meet this requirement, the ground will be graded level not less

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than one foot on either side of the fence. Grading for all specific conditions shall be such that water will not be allowed to pond in the immediate area of the fence.

- I. **General Appearance.** All runs of fence shall present the same general appearance. The product of one manufacturer only will be accepted, except for items which do not influence the appearance of the completed fence. The fence shall be the product of a manufacturer who has demonstrated by actual installations of a similar nature, that its product is the type required. No used, re-rolled, or open seam steel will be permitted in posts, gate frames, rails or braces.

END OF SECTION