

ITEM 07607.9701 M - ORNAMENTAL ALUMINUM FENCE

DESCRIPTION:

This work shall consist of furnishing and erecting Ornamental Aluminum Fence of the type, size, and locations shown on the plans or as directed by the Engineer.

MATERIALS:

Materials shall conform to the requirements specified in the following subsections of Section 700 –Materials:

Wrought Aluminum	715-04
Stainless Steel Connecting Products	715-16
Aluminum Sign Panels	730-01

The horizontal rails shall be extruded from 6061-T6 alloy conforming to the requirements of ASTM B221M with a minimum ultimate strength of 262,000 kilopascals. Pickets and posts shall be extruded from 6061-T6 alloy conforming to the requirements of ASTM B221M with a minimum ultimate strength of 151,685 kilopascals and a minimum yield strength of 110,316 kilopascals. All fence material shall be of uniform quality and condition, free from cracks, blowholes, porous places, hard spots, and shrinkage defects.

Anchor bolts and fasteners used in assembly of the fence shall be stainless steel with zinc dichromate coating for enhanced corrosion resistance. All fasteners shall have vandal proof heads and be painted to match the finish of the fence.

Prior to the application of paint, the aluminum fence components shall be prepared following directions included in Section 730-01. The aluminum fence components shall then have an factory electrostatically applied black paint coating. The coating should be a barrier type polyester TGIC containing no aluminum.

Portland Cement concrete used for footings shall be Class A or C conforming to the requirements of Section 501 "Portland Cement Concrete - General" except that requirements for automated batching shall not apply.

Aluminum placed in contact with concrete shall be coated with paint to reduce the effect of alkali attack.

CONSTRUCTION DETAILS:

The Contractor shall submit three (3) copies of catalog cuts or detailed shop drawings to the Engineer for review. Drawings shall show clearly all materials, finishes and connecting and joining methods. No fabrication work shall commence prior to the written approval by the

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Regional Director.

Assembly of the fence components shall be performed in strict accordance with manufacturer's recommendations for installation. All work shall be free of blemishes or defects which can affect durability, strength or appearance.

The Ornamental Aluminum Fence shall be assembled and installed true to line and grade with the posts vertical as shown on the plans or as directed by the Engineer.

Paint shall be applied at the time of manufacture. The finish coat shall be uniformly applied to insure complete coverage of the primer coat.

All posts shall be set plumb and attached to concrete footings as shown on the plans. The top surfaces of the footings shall be domed to shed water and finished smooth to provide a neat appearance when completed.

The Contractor shall protect all parts of the fence and maintain it in an undamaged condition until completion and acceptance of the Contract. Any sections damaged at any time prior to final acceptance shall be repaired or replaced at the Contractor's expense.

METHOD OF MEASUREMENT:

The quantity to be paid for Ornamental Aluminum Fence shall be the number of meters measured along the top rail of the fence, exclusive of fence gates, properly furnished and installed in accordance with the plans, specifications, and directions of the Engineer.

BASIS OF PAYMENT:

The unit price bid shall include the cost of furnishing all labor, materials, tools, and equipment necessary to satisfactorily complete the work and shall include all necessary clearing, grubbing, excavation and disposal, fill, concrete, and all other necessary materials.