

ITEM 11607.44 M - STEEL PICKET FENCE AND GATES

DESCRIPTION:

This work shall consist of furnishing and erecting painted steel picket fencing and steel picket fence gates of the type and size, and at the locations shown in the contract documents. Construction of fencing and gates shall be done in accordance with the specifications, and the contract documents, and in reasonably close conformity with the lines and grades shown on the plans.

As soon as the contract is awarded, the Contractor shall notify the D.C.E.S. of the name and address of the Fabricator of all fencing. This notification shall list the specific shop or shops in which the fencing will be fabricated.

MATERIAL:

Materials shall meet the requirements of the following subsections and as noted herein:

Concrete Grouting Material	701-05
Anchoring Materials - Chemically Curing	701-07
Paint	708
Galvanizing	719-01 Type I or Type II
Anchor Bolts	723-60
Painting Procedures	740
Portland Cement Concrete Class A	501
Solid Pickets shall be cold rolled ASTM A575 Grade M 1020	
Tubular posts and rails shall be cold rolled ASTM A500 Grade B	
All other steel shall be ASTM A36M	
Bolts, nuts and washer shall be ASTM A325M, Type 3	

CONSTRUCTION DETAILS:

The requirements of Standard Specifications Section 568-3.01 shall apply except as noted herein. In Section 568-3.01 the terms "railing" and "rails" shall be interpreted as "steel picket fence," Subsections 568-3.01 A, B, C, D, E, G, M and N shall apply.

Cement mortar pads shall conform to the provisions of Standard Specifications Section 568-3.02.

The Contractor shall cast concrete foundations as indicated on the drawing.

Anchor bolts shall be of the type and size indicated on Contract Documents and selected by the Contractor subject to the approval of the Engineer. All anchor bolts shall have washers, and nuts if required, supplied by the bolt manufacturer. The grouting or anchoring material, if required, shall be compatible with the type of anchor bolt proposed by the Contract and approved by the Engineer.

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All welded connections shall be shop fabricated except as noted on the contract drawings. The fence shall be fabricated, transported and erected in accordance with the provisions of the NYSDOT Steel Construction Manual and in accordance with the approved shop drawings. Shop drawings shall be prepared, approved, and distributed in accordance with the provisions of the SCM, except that the term "D.C.E.S." shall be interpreted as "the Engineer." Prior to submitting shop drawings, the Contractor shall field verify the picket fence panel lengths and heights shown on the contract drawings. Changes to the panel lengths and heights shown on the contract drawings may be proposed by the Contractor, subject to the approval of the Engineer and at no additional cost to the State. Said request for changes to the dimensions shown on the Contract Drawings, if any, shall be clearly identified on the shop drawings.

When the plans require that anchors be set in concrete, no loads shall be placed on the concrete until seven days have elapsed from the time of placing the concrete.

All rails shall be set level. The top of the fence shall be set level. All posts, pickets and gates shall be set vertically and to the required grade and alignment. Fence top elevations shall vary no more than 10 mm from those shown on the Contract Documents. Horizontal rails shall vary no more than 10 mm in 6 000 mm from true horizontal. Horizontal rails shall vary no more than 10 mm in 6 000 mm from the lines shown on the Contract Documents. Picket spacing shall be constant in any fence section as shown on the Contract Documents.

Prime and intermediate paint coats shall be applied in the shop. Finish coat (black semi-gloss) shall be applied after the fence has been erected.

At any location where an electric transmission, distribution or secondary line crosses the fence, the Contractor shall furnish and install a ground conforming to the requirements of Subsection 9 of the National Electric Safety Code.

Fence gates shall be indicated on the plans. Each gate shall be provided with a padlock (American 747 or approved equivalent). All locks shall have identical key. The contractor shall provide the Engineer with six (6) keys.

METHOD OF MEASUREMENT:

Payment will be made on a lump sum basis. Progress payments will be made for this work in proportion to the amount of work satisfactorily completed.

BASIS OF PAYMENT:

The lump sum price bid shall include the cost of furnishing all labor, materials, and equipment necessary to complete the work. All foundations, pads, braces, shims, splices with their hardware, anchor bolts with nuts, washers, anchor plates, locks, keys, etc., shall also be included in the lump sum price bid for this item.