

ITEM 08615.4012 M - STEEL HANDRAIL (1.2 M HEIGHT)

DESCRIPTION:

This work shall consist of furnishing and installing handrail as shown on the contract plans and in accordance with the specifications.

MATERIALS:

1. All railing, posts, and spindles shall meet the requirements of ASTM A36, A500 Grade B or as approved by the Engineer.

2. Paint Materials

- A. Paint, Primer and Thinner:

Paint and thinner shall be selected from the Department's approved list, "Paints For Structural Steel, A. Primer Paint and Thinners; B. Intermediate Paint Thinners; and C. Finish Paint and Thinners". No substitutions will be allowed.

All primer and other coats of paint used on any one structure shall be produced by the same manufacturer.

- B. Basis of Acceptance:

Acceptance of paint, primer paint and thinner materials will be based on the appearance of the manufacturer's name, and the product name, on the Department's approval list.

Only paint, primer and thinner arriving at the work site in new, unopened containers shall be used.

Containers of paint shall be labeled with the manufacturer's name, product name, component part, batch number, date of manufacture and shelf life date. Paint in containers having expired shelf life dates shall be immediately removed from the work site and not used.

Containers of thinner shall be labeled with the manufacturer's name and the product name. If an approved generic thinner is supplied, it shall be clearly identified as reagent grade.

3. The grout shall meet the specifications of Section 701-05, Concrete Grouting Material.

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CONSTRUCTION DETAILS:

The railing, posts and pickets shall be fabricated to the dimensions shown on the contract plans. All welding shall be performed by qualified workers and all welds ground smooth. Upon completion of the rail fabrication, the entire surface shall be covered with a single coat of primer, in the shop.

The installation shall be as shown on the plans or as directed by the Engineer.

After completing the installation of the steel handrail at the job site, any damage to the previously primed railing shall be repaired as directed by the Engineer and then painted with one (1) coat of intermediate paint and one (1) coat of black finish paint, meeting the material requirements specified. The paint shall be applied by brush. Manufacturer's instructions, suggestions and precautions contained in the current technical data sheets for the paints and primers shall be followed. The time interval between coats of paint shall be as approved by the Engineer.

The provisions for "Fabrication" and "Basis of Acceptance" of materials Subsection 710-23, Steel Bridge and Culvert Railing, shall apply with the following modification:

Shop drawings shall be submitted to and approved by the Regional Director.

The requirements of Section 568-3.01, Erection of Bridge and Culvert Railing, shall apply except:

Subsections: 568-3.01I, 568-3.01J, 568-3.01K, 568-3.01L, 568-3.01M, and that all approvals shall be the responsibility of the Regional Director.

METHOD OF MEASUREMENT:

The quantity to be measured for payment under this item shall be the number of linear meters measured along the centerline of the top rail.

BASIS OF PAYMENT:

The unit price bid shall include the cost of furnishing all labor, materials and equipment necessary to complete the work. The cost of drilling and grouting the posts is also included in the cost per linear meter.