ITEM 607.43XX—11 - WICKET FENCE (NYCDPR)

DESCRIPTION

This work shall consist of furnishing and installing a 'Wicket Fence' in accordance with the contract documents and as directed by the Engineer. Unless otherwise noted, wicket fence shall conform to NYCDPR Wicket Fence Standard Details.

MATERIALS

Wicket Fence shall be,

Wicket Fence
Manufactured by
Shannon Fence
900 Long Island Ave.
Deer Park, NY 11729
631-254-0314
http://shannonfencing.com

Wicket Fence
Manufactured by
Custom Fabrication, Inc.
2903 NY Rte. 7
Harpursville, NY 13787
607-693-3223
http://customfabrication.com

Wicket Fence
Manufactured by
Boundary Fence and Railing Systems, Inc.
131-02 Jamaica Ave
Richmond Hill, NY 11418
718-847-3400
http://boundaryfence.net

Or equal as approved by the Engineer.

The following sections of the Standard Specifications shall apply:

501	Portland Cement Concrete, General
555	Structural Concrete
572	Structural Steel Painting – Shop Applied
573	Structural Steel Painting: Field Applied – Total Removal

Wicket Fence: Wicket fence shall be constructed of 13 mm diameter solid round soft steel rod. All material shall conform to specifications ASTM A36.

Concrete Footings: Footings shall be constructed of either Class A concrete or Type 1A cement with water as per bag instructions.

Painting: The fence shall receive three (3) coats of paint.

First Coat (Shop Applied): The primer shall be a fast drying, 81% ± 2% weight solids, low VOC, rust inhibiting, modified alkyd metal primer with a dry film thickness of 3-4 mils. Paint requires two and a half (2 ½) hours drying time before recoating (with alkyds).

Second Coat and Third Coats (Field Applied): Topcoat shall a VOC compliant silicone alkyd high gloss coating having a dry film thickness of 2-4 mils (each coat). Paint requires eighteen (18) hours drying time @ 25° C.

Color of the finish coat shall be as specified in the contract documents. All coats of paint shall be produced by the same manufacturer. Selection of undercoat colors is left to the discretion of the Contractor except that each single paint coat shall be a color different from the others and shall be approved by the Engineer.

Paint Substitution: A written request for paint substitution must be submitted to the Engineer for review by NYCDPR Design Division, Department of Specifications. Contractor shall submit this request, along with manufacturer's material safety data sheets (MSDS) for approval, a minimum of two (2) weeks prior to the intended date of paint application. All paint substitutes must be approved in writing prior to use.

CONSTRUCTION DETAILS

Shop Drawings: The Contractor shall submit shop drawings showing all dimensions and footing locations for approval prior to fabrication.

Wicket Fence Fabrication: Form curves by bending members in jigs to produce uniform curvature for each repetitive configuration. Maintain profile of member throughout entire bend without buckling, twisting, or otherwise deforming exposed surfaces.

The upright portion of each wicket shall be welded to the upright portion of the adjoining wicket and all intersections between the curved portions of the adjoining wickets shall be firmly welded. All welds shall be ground smooth. Welding shall conform to AWS D1.1 Structural Welding Code – Steel.

Curved segments shall be fabricated to follow the alignment of the adjacent curb (or pavement edge, where no curb is present).

Concrete Footings: Footings shall be roughly cylindrical in form.

1. For 300 mm height wicket fencing, footings shall approximately 150 mm in diameter and 200 mm in depth and shall be placed at 2.400 M intervals and at all turns and corners.

2. For 450 mm height wicket fencing, footings shall be approximately 150 mm in diameter and 300 mm deep and shall be placed at 2.250 M intervals and at all turns and all corners.

Painting: Immediately prior to painting, all surfaces of wicket fence shall be thoroughly cleaned in accordance with the Society of Protective Coatings (formerly the Steel Structures Painting Council) (SSPC) standards.

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1. All surfaces that are rust free shall be cleaned in accordance SSPC-SP-1, Solvent Cleaning. Cleaning shall be performed with a solvent such as mineral spirits, xylol or turpentine to remove all dirt, grease and foreign matter.
2. Surfaces that show evidence of scale and rust shall be cleaned in accordance with:
   - SSPC-SP-2, Hand Tool Cleaning, a method generally confined to wire brushing, sandpaper, hand scrapers or hand impact tools, or
   - SSPC-SP-3, Power Tool Cleaning, a method generally confined to power wire brushes, impact tools, power sanders and grinders in order to achieve a sound substrate.

After the fence has been cleaned and prepared, it shall be painted as follows:

1. The first coat shall be a shop coat applied immediately after fabrication and shall be selected from the Approved List for Structural Steel Paints – Shop Applied.
2. The second and third coats shall be applied in the field and shall be selected from the Approved List for Structural Steel Paints – Field Applied.

All paints shall be applied when ambient air temperature is 7° C minimum and rising. No painting will be allowed below the minimum ambient air temperature. Surfaces to be painted shall be moisture free. In addition, no painting will be allowed below the temperature at which moisture will condense on surfaces.

When applying the field coat the Contractor shall take care to protect all adjacent surfaces of curbs and pavements from paint spatters and spills. Any spatters or spills are to be removed immediately, using appropriate solvents as needed.

Setting: When specified on contract plans, all wickets shall be bound with a triple winding of No. 9 galvanized annealed wire, with the ends twisted together, two (2) ties shall be placed on each vertical leg and one tie at each intersection of curved portions of the wickets as shown on plans. Wickets shall be truly vertical and shall be firmly held in position by the use of concrete footings.

METHOD OF MEASUREMENT

This work will be measured as the number of meters of Wicket Fence (NYCDPR) of the specified height satisfactorily furnished and installed, measured to the nearest tenth of a meter.

BASIS OF PAYMENT

The unit price bid shall include the cost of all labor, materials, and equipment necessary including the wicket fence, painting, annealed wire (if required), footing concrete, excavation and backfill and all other incidentals necessary to satisfactorily complete the work.

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The unit price bid shall also include the cost of drilling and grouting if wicket fence is to be set on concrete curb. Concrete, reinforcement, excavation and backfill for concrete curb shall be paid for separately.

XX – Wicket Fence Height in centimeters (cm)