

ITEM 08569.20 M - VERTICAL FACED CONCRETE BARRIER WITH PICKET FENCE

DESCRIPTION

This work shall consist of furnishing and erecting vertical faced concrete barriers topped by picket fencing and with or without box beam rails as shown on the contract plans and in accordance with these specifications.

MATERIALS

- a. **FABRICATION.** Materials used for traffic barrier fabrication shall meet the requirements of Section 569, permanent concrete traffic barrier for structures of the standard specifications. Reference Section 568 for railing materials.
- b. **GALVANIZING.** Steel shall not be galvanized, except for anchor bolts. Steel will be painted. See the section on finishing.
- c. **FABRICATION TOLERANCES.** Concrete tolerances shall conform to requirements of Section 569. Steel dimensional tolerances are 1.5 mm unless noted.

CONSTRUCTION DETAILS

- a. **APPROVALS.** Concrete approvals shall be per Section 569. The steel picket fencing requires approved shop drawings which shall be submitted to the Deputy Chief Engineer (Structures) for review and approval at least 45 working days prior to fabrication.
- b. **GENERAL.** Provisions for concrete, whether cast-in-place or precast shall meet the requirements of Section 569.

The edges of all metal railing components shall be ground smooth to remove all sharp edges.

The steel picket fence portion of the barrier shall be fabricated to the dimensions shown on the contract plans, in compliance with Section 710-23, and in compliance with these specifications.

Shop welding shall be performed only where specifically noted on the contract plans. Transverse welds shall not be permitted unless directly called for on the contract plans.

All picket fence assemblies shall be fabricated such that when installed, all rails are parallel to each other and follow the roadway profile. All posts shall be set truly vertical.

- c. **FINISHING.** All non-concrete components of the railing system except anchor bolts shall be shop painted with a three coat paint system in accordance with Subsections 572-2 and 572-3 of the standard specification except as modified herein.

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- d. ERECTION OF THE METAL PICKET FENCING. Immediately prior to erection, the railing shall be inspected for damage. Significant bends or kinks in the railing not specifically called for in the contract plans and documents shall constitute sufficient cause for rejection. Straightening of such bends or kinks shall not be allowed. The engineer may order some bending or curving to allow for necessary minor adjustments.

Field welding for installation of the railing shall be permitted as noted in the contract plans or ordered by the engineer.

All railing shall be erected in accordance with approved shop drawings prepared and submitted as specified in the New York State Steel Construction Manual.

Any damage to the paint on the railing system and items not previously painted, which are used for installation of the railing, shall be repaired in accordance with Subsection 572-3.06.

Applicable portions of 568 pertaining to steel box beam rails shall be met.

METHOD OF MEASUREMENT

The quantity to be measured for payment under this item shall be the number of linear meters of railing, measured along the centerline of railing anchorage, between the extreme outer limits shown on the contract plans, installed in accordance with the plans and these specifications.

BASIS OF PAYMENT

The unit price bid per linear meter of railing shall include the cost of furnishing all labor, materials and equipment necessary to complete this work.

No payment shall be made for those railing pieces which are replacement for those railing pieces that have been rejected.