

## SECTION 470 RAILING

### 470.1 DESCRIPTION

This work consists of constructing railings.

### 470.2 MATERIALS

**Structural Steel:** Unless otherwise specified on the plans, structural steel for railing shall conform to ASTM A709/A709M, Grade 36 (250) except that tubular members shall conform to ASTM A500, Grade B.

**Anchor Bolts:** Unless otherwise specified on the plans, anchor bolts and nuts shall conform to ASTM A307 (ASTM F568, Class 4.6).

**Paint:** Section 411.

### 470.3 CONSTRUCTION REQUIREMENTS

Railing shall be fabricated and erected in accordance with Section 410.3 and the following:

Railing shall be constructed in accordance with the details shown and shall be adjusted prior to bolting or welding the connections to insure proper matching at abutting joints and correct alignment throughout the length.

Unless otherwise specified on the plans, rail posts shall be built vertical.

Shop and field welding, and welding inspection shall conform to the requirements in the latest edition of ANSI/AWS d1.1-xx Structural Welding Code. Welders shall be qualified in accordance with Section 410.3 H.

The painting of railing shall conform to the requirements of Section 411.

### 470.4 METHOD OF MEASUREMENT

The plan shown quantities of railing will be the quantity paid for.

### 470.5 BASIS OF PAYMENT

The accepted quantities of railing will be paid for as detailed on the plans and, unless otherwise specified on the plans, shall include the cost of structural steel, anchor bolts, painting, galvanizing, welding, weld inspection, labor, equipment and all other items incidental to fabricating and constructing the railing.