

PART I – GENERAL**WORK SPECIFIED HEREIN**

All labor, materials, equipment and services necessary to fabricate, furnish and erect all steel railings and handrails including anchors, brackets, etc., as indicated or specified.

SUBSTITUTIONS

In accordance with Section 01600.

SUBMITTALS

- Unless otherwise notes, the contractor shall prepare all shop drawings, product literature, etc. only as required to properly coordinate and construct the project.
- Review submittals by the Professional of Record is limited to specific shop drawings as called for in the Project Manual.
- Shop drawings for review by the Professional of Record are not required for this section.

PART II – PRODUCTS**MATERIALS**

- Structural steel shapes and plates shall conform to *ASTM A-36*.
- Steel Bars and bar-size shapes shall conform to *ASTM A-36*.
- Steel butting shall conform to *ASTM A-500, Grade B*.
- Gray iron casting shall conform to *ASTM A-48, Class 30*.
- Malleable iron castings shall conform to *ASTM A-47, Grade as selected*.
- Steel pipe shall conform to *ASTM A-53, type as selected, Grade A, standard weight (Schedule 40)*.
- Primer shall *FS TT-P-386*.
- Chain Link Railing Infill: No. 9 gage, Class 2 galvanized, ASTM A392 (202.21NC per sq. ft.) Core SRE Steel Wires, 2" mesh, with top and bottom selvages knuckled.

FABRICATION

Work shall conform with the standard specifications, rules and practice of the AISC as described in the "Steel Construction Manual". Form and fabricate the work to meet installation conditions. Include accessories to adequately secure the work in place. Verify dimensions, conditions and existing limitations, upon which the work of this section might be contingent. Make provisions to connect with or to receive the work specified in other sections. Install items anchored in concrete in the formwork, where practicable. Set items to be built into masonry so that masonry can be built up to them, anchoring in position.

PRIME COAT

Clean all metal work of grease, rust, mill scale, and other foreign matter and give a coat of primer.

PART III – EXECUTION**WORKMANSHIP**

Fabricate and erect all work using only skilled workmen. Make all connections between members, unless otherwise indicated, by the use of welds or bolts. Conceal connections in finished work where possible. Exposed screw fastenings, where required, shall be Phillips oval head screws to match material in which they are used. Accurately member or miter exposed joints with hairline joints. Grind all welds in finished surfaces smooth. Welding shall be done by the shielded arc method. No identifying marks shall remain exposed.

STEEL RAILINGS

- Furnish and install all steel railing at locations indicated. Include all plates, angles brackets, sleeves, etc., required.
- Railings shall be smooth, with all projections and corners ground smooth. Welds shall be flush type, neatly and substantially done, with fillets dressed to uniform radius, with all excess metal removed and welds ground smooth. Return all rail ends to walls.
- Install all posts and vertical members plumb within 1/8" of vertical. Install longitudinal members parallel with each other and with floor surfaces or slope of stairs to within 1/8" per 10 running feet. Center lines of all members within each run shall lie in the same vertical plane.

END OF SECTION

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