DIVISION 05 - METALS
Includes the following sections:
05 12 00  Structural Steel Framing
05 50 00  Metal Fabrications

DESIGN CRITERIA

Galvanizing: All metal exposed to view or moisture shall be non-ferrous or heavy hot-dipped galvanized.

Paint shall be avoided at exterior handrails.

Steel sleeves used in concrete for steel handrails shall be hot dip galvanized after fabrication.

Painting
1. Shop Priming
   a. Galvanized metal: touch up with Galv-Weld, or equal (second mfr must be named).
   b. Other metal: paint one coat approved metal primer.
   c. Paint concealed areas before assembly.
2. Remove rust, scale, grease and oil after fabrication and before shop priming. (Refer to Section 09 90 00 for additional information)
3. Field Painting: At all galvanized metal surfaces, the following procedure should be followed.
   a. Acid etch all surfaces with muriatic acid.
   b. Prime with an oil-based primer specifically intended for galvanized surfaces.
   c. Two (2) finish coats (minimum) of specified paint to be applied.

STRUCTURAL STEEL FRAMING 05 12 00

All metal exposed to view or moisture shall be non-ferrous or heavy hot-dipped galvanized conforming to ASTM Specification A153-60. Dissimilar metals shall not touch.

METAL FABRICATIONS 05 50 00

All metal exposed to view or moisture shall be non-ferrous or heavy hot-dipped galvanized, conforming to ASTM Specification A153-60. Dissimilar metals shall not touch.

Exterior Metal Ironwork
1. All exterior metal ironwork shall be heavy hot-dip galvanized after fabrication. No field welding.

Exterior Handrails
1. Where joints are required, due to lengths too long to transport or hot-dip galvanize, provide joints which allow for expansion and contraction (slip joints) and which do not require field welding or work which will disturb the hot-dip galvanization.

2. See UCSC standard detail 05.5-20