NOTE TO CONSULTANTS: Edit with Track Changes turned on, any text in this section that appears in bold and italics then turn off the bold and italics for the final approved version. (Remove this Note).

PART 1 - GENERAL

1.01 Description: Provide and install all metal handrails, guardrails and associated hardware.

1.02 Related Sections:

Section 03 30 00 - Cast-In-Place Concrete
Section 09 91 00 - Exterior Painting

1.03 Quality Assurance:

A. All construction shall be in accordance with the City of Seattle Standard Specifications and Plans (most recent edition) and all other pertinent Seattle Parks and Recreation (SPR) Standard Specifications and Details.

B. Conform to requirements of the most recent editions of the following Reference Standards, or as modified and supplemented herein:

1. International Building Code (IBC)
2. City of Seattle Building Codes and Regulations (SBC)
3. American Institute of Steel Construction (AISC)
4. American Iron and Steel Institute (AISI)
5. American Welding Society (AWS)

C. Steel fabricator shall be experienced in steel fabrication including: cutting, bending, fastening, and finishing.

D. Welders shall be certified by Washington Association of Building Officials (WABO) for structural welding.

1.04 Submittals:

A. Product Data: Submit manufacturer's published literature for specified products and accessories as applicable including manufacturer's specifications, performance calculations, and physical characteristics.

B. Shop Drawings: Submit to the Engineer for approval, shop drawings, details of fabrication with dimensions and connections shown.

C. Color or Finish Samples: The Contractor shall submit for selection colors available from manufacturer's standard color line.

1.05 Delivery, Storage and Handling: Ship, store, and handle all items so as to protect metal components from damage on site. Store in a safe location, out of pedestrian and vehicular

traffic and protected from weather. Repair or replace any damaged components before installation.

PART 2 - PRODUCTS

2.01 Handrails:

A. SPR's Standard Material for handrails shall be Schedule 40 Galvanized Steel pipe.

B. Special exceptions for unique applications shall be either Painted, Powder Coated, Aluminum or Stainless Steel, only as approved by the Engineer during the design/technical review process.

2.02 Paint: Kynar 500 Paint system, or approved equal. Color shall be selected by the Engineer after submittal of color samples.

2.03 Guardrails: Same as handrails above.

PART 3 - EXECUTION

3.01 Installation:

A. Connect handrail pipe to concrete footing as shown on the Drawings. Handrails to be set straight, true, and plumb without curves and bends.

B. Coordinate anchor bolt placement with concrete contractor.

3.02 Materials and Finishes:

A. Hot-dipped galvanizing after fabrication is required and is the preferred finish.

<u>Optional, (as approved)</u>:

B. Painting or Powder Coating over hot-dipped galvanizing.

C. Anodized Aluminum.

D. Stainless Steel.

END OF SECTION