SECTION 10 75 00
FLAGPOLES

SPEC WRITER NOTE: Delete between //----// if not applicable to project. Also delete any other item or paragraph not applicable in the section and renumber the paragraphs.

PART 1 - GENERAL

1.1 DESCRIPTION
Fixed high dimensional, ground set, uniform conical taper, seamless tube flag pole.

1.2 RELATED WORK
A. Excavation and backfill: Section 31 20 00, EARTH MOVING.
B. Concrete for ground set flagpole: Section 03 30 00, CAST-IN-PLACE CONCRETE.

1.3 SUBMITTALS
A. Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
B. Shop Drawings: Flagpole, including base and finial ball, showing construction and installation.
C. Manufacturer's Literature and Data: Flagpole

1.4 APPLICABLE PUBLICATIONS
A. The publications listed below form a part of this specification to the extent referenced. The publications are referenced in the text by the basic designation only.
B. American Society for Testing and Materials (ASTM):
   A167-99 (R2009) ........ Stainless and Heat-resisting Chromium-Nickel Steel Plate, Sheet and Strip
   B209-07 ............... Aluminum and Aluminum Alloy- Sheet and Plate
   B241/B241M-10 ........ Aluminum and Aluminum-Alloy Seamless Pipe and Seamless Extruded Tube

PART 2 - PRODUCTS

SPEC WRITER NOTE: Make material requirements agree with applicable requirements specified in the referenced Applicable Publications. Update and specify only that which applies to the project.

2.1 MATERIALS
B. Aluminum, Plate and Sheet: ASTM B209, alloy 1100.
C. Stainless Steel: ASTM A167, Class 302 or 304.
2.2 FABRICATION

A. Fabricate flagpole of seamless extruded aluminum tube, uniform conical taper of approximately 1 in 70 (one inch in every 6 feet). Taper shall not exceed 50 percent of outside diameter of pole. When flagpoles are shipped in more than one section, provide self-aligning sleeves for field joint.

B. Base: Aluminum plate or stainless steel, of stock design similar to that shown.

C. Finial Ball: 2 mm (0.0747 inch) thick spun aluminum sphere, with seams of ball welded flush and watertight. Mount ball on threaded rod to fit truck. Diameter of ball shall be approximately same as pole butt diameter.

D. Truck: Equip pole with extra heavy, revolving, non-fouling, ball bearing type truck with cast aluminum body. Fit truck with two cast aluminum, nylon bushed sheaves on stainless steel axles.

E. Halyards: Two sets of 9 mm (3/8-inch) diameter, nylon braided rope having not less than two bronze swivel snaps for each halyard.

F. Cleats: Two aluminum cleats of 230 mm (nine inch) minimum length. Secure cleats to pole with two 9 mm (3/8-inch) flat head aluminum machine screws.

2.3 FINISH

A. Finish exposed surfaces of flagpoles.

B. Flagpole shaft: Satin brushed aluminum, then heavily waxed.

C. Finial ball: Gold anodized aluminum, then heavily waxed.

D. Base and cleats: Finish to match flagpole.

E. Stainless Steel (base): As recommended by flagpole manufacturer.

PART 3 – EXECUTION

3.1 INSTALLATION

A. Set flagpoles in concrete base. Provide galvanized, corrugated steel sleeve or tube of length shown welded to steel base plates for installation in concrete.

B. Wrap top of sleeve with two layers of asphalt felt for distance of 600 mm (2 feet) down.

C. Fill space between pole and metal sleeve to within two inches of top with fine dry sand and fill balance of space with waterproof compound as shown.

3.2 LIGHTNING ROD

Weld lightning ground rod of 19 mm (3/4-inch) diameter galvanized steel to base plate at bottom of sleeve or tube, and to steel support plate at grade.