Flag Pole Specifications

Section 10700 – Flag Poles

Part 1 – General

1.1 SUMMARY/DESCRIPTION

A. Scope of Section: Provide aluminum flagpole(s) as shown on drawing and as specified herein, with components as needed for a complete installation.

B. Related Sections: Division 3 section "Cast-in-Place Concrete" for concrete footings for flagpoles.

1.2 PERFORMANCE REQUIREMENTS:

A. Structural Performance: Provide flagpoles capable of withstanding the effects of wind loads as determined according to NAAMM FP 1001-97, "Guide Specifications for Design of Metal Flagpoles" or to specified wind speed, whichever is more stringent.

B. Base flagpole design on maximum standard size nylon flag suitable for use with pole or flag size indicated, whichever is more stringent.

1.3 SUBMITTALS:

A. Product Data: For each type of flagpole required, submit manufacturer's technical data and standard installation instructions.

B. Shop Drawings: Show general layout, jointing, anchorage, support systems, and accessories.

C. Samples: Finish samples for each finished metal used on flagpoles, as may be required.

1.4 QUALITY ASSURANCE:

A. Source: Obtain each flagpole as a complete unit from Admiral Flag Poles, Inc., including fittings, accessories, bases, and anchorage devices.

1.5 DELIVERY, STORAGE, AND HANDLING:

A. General: Spiral wrap flagpoles with a heavy Kraft paper or other lightweight wrapping and enclose in a hard fiber tube or other protective means. Store bare flagpoles in a dry location, protected from the weather and moisture, as recommended by the manufacturer.

B. Ship to project site in one piece or as specified. If more than one piece is necessary, provide snug fitting precision joints with self-aligning, internal splicing sleeve arrangements for weather tight, hairline field joints.

Part 2 – Products

2.1 MANUFACTURER/DISTRIBUTOR

A. Manufacturer:

American Flagpole
Abingdon, VA 24210

B. Distributor, subject to compliance with requirements, shall be:

Admiral Flag Poles, Inc,
5795 Westbourne Ave.
Columbus, OH 43213
PH: 800-783-7653
FX: 800-830-6233

2.2 FLAGPOLE TYPE AND CONSTRUCTION:

A. Aluminum Flagpole Construction, Fabricate from seamless, extruded tubing complying with ASTM B 221, alloy 6063-T6, having a tensile strength not less than 30,000 psi with a yield point of 25,000 psi. Heat treat after fabrication to comply with ASTM B 597, temper T6.

1. Provide cone-tapered flagpoles, per manufacturer's standard rate of taper.

B. Assembly Construction: **Int. W/ Winch Groundset** flagpole, **45 ft.** nominal mounting height, with a minimum base wall thickness of **0.188 in.**, and a **8 in.** butt diameter. Ship to project site in **2 pieces with flush joint**.

2.3 MOUNTING

A. Foundation Tube: Galvanized corrugated steel foundation tube, .0635 inch [16 Gauge] (1.6 mm) minimum wall thickness, sized to suit flagpole and installation. Provide with 3/16 inch (4.8 mm) steel bottom plate and steel centering wedges all welded together. Furnish with 3/16" inch (4.8mm) support plate, ¾ inch (19 mm) diameter X 18" long steel ground (lightning) spike, all welded construction.

2.4 FITTINGS

F. Internal Halyard Truck Assembly With Hood for Cable: Cast aluminum non-fouling revolving with single pulley mounted inside hood, stainless steel roller bearings, threaded spindle for attachment to top of pole, and bronze exit bushing for cable.

1. Provided with stainless steel ball bearings.

J. Internal Halyard, Winch System: 1/8" (3mm) stainless steel aircraft cable with plastic coated counterweight and beaded sling assembly. Manually operated mechanical winch having automatic brake system and operated with a removable hand crank. Winch shall be concealed inside the flagpole behind a flush access door having a cylinder lock and continuous piano hinge.

K. Halyard Flag Snaps: Provide 2 swivel snap hooks per halyard as follows:

1. Chrome plated bronze

O. Collar: Manufacturer's standard spun aluminum flash collar to match flagpole.

2.5 MISCELLANEOUS MATERIALS

A. Concrete: Comply with requirements of Division 3 Section "Cast in Place Concrete".

2.6 FINISHES

A. Metal Finishes, General: Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.

B. Aluminum: Finish designations prefixed by AA conform to the system established by the Aluminum Association for designating aluminum finishes.

1. Natural Satin Finish: Provide directional-sanded satin finish (AA-M33); buff complying with AA-M20.

PART 3 – EXECUTION

3.1 PREPARATION

A. Excavation: For foundations, excavate to neat clean lines in undisturbed soil. Remove loose soil and foreign matter from excavation and moisten earth before placing concrete.

B. Provide forms where required due to unstable soil conditions and for perimeter of flagpole base at grade. Secure forms, foundation tube, fiberglass sleeve, or anchor bolts in position, braced to prevent displacement during concreting.

C. Place concrete immediately after mixing. Compact concrete in place by using vibrators. Moist-cure exposed concrete for not less than 7 days or use a non-staining curing compound.

D. Trowel exposed concrete surfaces to a smooth, dense finish, free of trowel marks and uniform in texture and appearance. Provide positive slope for water runoff to base perimeter

3.2 FLAGPOLE INSTALLATION

A. General: Install flagpoles where shown and according to shop drawings and manufacturer's written instructions.

B. Foundation-Tube Installation: Install flagpole in foundation tube, seated on bottom plate between steel centering wedges. Plumb flagpole and install hardwood wedges to secure flagpole in place. Place and compact sand in foundation tube and remove hardwood wedges. Seal top of foundation tube with a 2-inch (50 mm) layer of elastometric sealant and cover with flashing collar.

END OF SECTION 10700