

## SECTION 10350 - FLAGPOLES

### PART 1 GENERAL

#### 1.1 SECTION INCLUDES

- A. Aluminum flagpoles.
- B. Finial supported flag down lighting.
- C. Accessories.

#### 1.2 RELATED SECTIONS

- A. Section 312000 - Earthmoving: For excavation, backfill, and material for installation requirements.
- B. Section 033000 - Concrete: For concrete materials and concrete installation requirements.

#### 1.3 REFERENCES

- A. AA - Aluminum Association.
- B. ASTM B 241 - Standard Specification for Aluminum and Aluminum-Alloy Seamless Pipe and Seamless Extruded Tube.
- C. ASTM B 597 - Standard Practice for Heat Treatment of Aluminum Alloys.
- D. ASTM C 33 - Standard Specification for Concrete Aggregates.
- E. NAAMM FP 1001 - Guide Specifications for Design of Metal Flagpoles.

#### 1.4 SUBMITTALS

- A. Product Data: Manufacturer's data sheets on each product to be used, including:
  - 1. Preparation instructions and recommendations.
  - 2. Storage and handling requirements and recommendations.
  - 3. Installation methods.
- B. Shop Drawings:
  - 1. Structural Calculations: Include structural analysis data signed and sealed by a professional engineer.
  - 2. Include details of foundation system.

#### 1.5 QUALITY ASSURANCE

- A. Installer Qualifications:

1. Five years experience installing flagpoles of similar height and complexity in locale of project.

#### 1.6 DELIVERY, STORAGE, AND HANDLING

- A. Spiral wrap flagpoles with heavy paper and enclose in a hard fiber tube or other protective container.
- B. Store products in manufacturer's unopened packaging until ready for installation.
- C. Keep flagpole and accessories covered to prevent soiling or damage.

#### 1.7 PROJECT CONDITIONS

- A. Structural Performance: Provide flagpole assemblies, including anchorages and supports, capable of withstanding the effects of wind loads, determined according to NAAMM FP 1001 for specified ground speed.

### PART 2 PRODUCTS

#### 2.1 MANUFACTURERS

- A. Acceptable Manufacturer: The Flagpole Warehouse; 3600 Cantrell Industrial Ct., Acworth, GA 30101. ASD. Toll Free Tel: (800) 962-0956.
- B. Requests for substitutions will be considered in accordance with provisions of Section 01600.

#### 2.2 APPLICATIONS/SCOPE

- A. Flagpoles: Refer to drawing for location.
  1. Identical flagpoles: Number: 4.
  2. Flagpole - 1: As indicated on drawings.
- B. Installation:
  1. Ground set with collar. Sleeve fabricated from galvanized corrugated steel, with steel base and support plates, ground spike and steel centering wedges. Spun aluminum flash collar finished to match pole.

#### 2.3 FLAGPOLES

- A. Platinum Series:
  1. ILC30V Model, internal cam series with rope halyard. Wire core polypropylene halyard, cam action stop/release and concealed revolving truck assembly. Provide flush access opening 1/2 inch (13 mm) secured with cylinder lock.
  2. Height (above ground)/Unflagged Wind Speed:
    - a. 30 feet / 163 mph.

- B. Finish: Satin aluminum.

## 2.4 MATERIALS

- A. Pole: Aluminum tubing with uniform conical taper fabricated from seamless extruded tubing complying with ASTM B 241. Heat treated after fabrication to comply with ASTM B 597 - Temper T6.

## 2.5 FLAGPOLE LIGHT

- A. Down-Lit Design: allows the flag to be illuminated with a one-piece flagpole finial and light combination.
  1. 120 Volt halogen light system. Halogen bulb rated at 3,000 hours.
  2. Revolves full 359 degrees.

## 2.6 ACCESSORIES

- A. Flagpole collar.

## PART 3 EXECUTION

### 3.1 EXAMINATION

- A. Do not begin installation until final grades and elevations have been established.
- B. If final base elevation is determined by others, confirm with Architect before proceeding.

### 3.2 INSTALLATION

- A. Ground Set Installation: Install flagpole in foundation tube, seated on bottom plate between steel centering wedges. Plumb flagpole and install wedges to secure flagpole in place. Place and compact sand in foundation tube. Seal top of foundation tube with waterproof compound.
  1. Sand: ASTM C 33, fine aggregate.
- B. Install in accordance with manufacturer's instructions.
  1. Install truck mounted finial lighting.
  2. Flagpole shall be plumb.

### 3.3 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products prior to Substantial Completion.

END OF SECTION