

**SECTION 32 30 00
SITE FURNISHINGS**

PART 1 - GENERAL

1.1 GENERAL PROVISIONS

- A. Attention is directed to the CONTRACT AND GENERAL CONDITIONS and all Sections within DIVISION 1 – GENERAL REQUIREMENTS, which are hereby made part of this Section of the Specifications. General intent of these work elements is to match the existing unless specific details or specifications are provided that are contrary. Where there are conflicts between the plans and specifications for the work, and the existing conditions the work that provides the highest quality as selected by the owner shall govern. The final work elements shall be as approved in the submittal process for the specific elements.

1.2 DESCRIPTION

- A. Work Included: Provide labor, materials and equipment necessary to complete the work of this Section, including but not limited to the following:
1. Furnish and install the Gravesite Grid Monuments at the specified locations.
 2. Furnish and install the Flower-watering stations, including trash receptacles, water spigot, and flower vase container and complete any required work necessary to make the water supply equipment operate using the water supply source indicated.
 3. Flag Sleeves
 4. Burial Section Marker (Granite to match existing)

1.3 RELATED WORK

- A. The following items are not included in this Section and will be performed under the designated Sections:
1. Section 32 05 23: CEMENT AND CONCRETE FOR EXTERIOR IMPROVEMENTS

1.4 SUBMITTALS

- A. Submit the following in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES:
1. General: For each item specified in description of work or Part 2 - Products, provide information showing complete detail, location in the project, material and size of components, method of joining various components and assemblies, finish, and location, size and type of anchors. Mark items requiring field assembly for erection identification and furnish erection drawings and instruction.
 2. Provide templates and rough-in measurements as required.
 3. Provide samples of full range of colors and finishes available for review and approval, prior to ordering.

1.5 REFERENCE STANDARDS

The publications listed below form a part of this specification and the work shall comply with pertinent standards of the latest editions as specified below or by industry standards unless designated otherwise herein.

- A. American Society for Testing and Materials (ASTM):
B221-14.....Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire,
Shapes, and Tubes
- B. American Welding Society (AWS):
D1.2-97 Structural Welding Code Aluminum
- C. National Association of Architectural Metal Manufacturers (NAAMM)

PART 2 - PRODUCTS

2.1 GRAVESITE GRID MONUMENTS

- A. General: Gravesite Grid Monuments.
 - 1. Gravesite grid monuments shall be comprised of an aluminum survey marker (monument marker) set into a pre-cast concrete base field set in concrete.
 - a. Materials:
 - 1) Monument Base: Pre-cast concrete monument base, shall be a minimum of 3,500 psi @ 28 days, reinforced with three #3 bars set equidistance around the 8" concrete, with the bars being imbedded from the outside edge of the 8" diameter concrete cylinder, as well as the top and bottom of the cylinder, of between 2 and 2 ½" of cover. The bars shall be aligned with the centerline of the cylinder. Provide a submittal drawing showing the details of the reinforced concrete monument base for review and approval.
 - 2) Monument Marker: Domed-top, 3 1/2" diameter, domed aluminum concrete survey marker with integral locator magnet, and flared anchor post for securing to concrete.
- B. Text and Cross-hairs: Text of top as shown on Contract Drawings; text all caps with height to be 3/16". Cross hairs shall be field engraved as shown on the Contract Drawings, aligned with the gravesite grid and engraved based upon Contractor-surveyed location data.
- C. Available Manufacturers: Subject to compliance with requirements, manufacturers offering monument marker assembly with magnet and lettering that may be incorporated in the work include, those manufacturer's that can demonstrate, during the submittal process, that they have provided these products as part of successful installations matching the specifications and drawings, at a minimum of three VA National Cemeteries.

2.2 FLOWER WATERING STATIONS: GENERAL

- A. Flower watering station materials, finishes and colors shall fully comply with the specifications and Contract Drawings.

2.3 TRASH RECEPTACLE

- A. Trash receptacles shall match the existing at the Cemetery, which are Victor Stanley Ironsides S-42 units with the high strength plastic domed top with self-closing lid and stainless steel anchor strap.
- B. MATERIALS (The following materials are for the above indicated product)
 - 1. Main body construction shall be 3/8" x 1" vertical solid steel bar; 1/4" x 2-1/2" horizontal solid steel bands; 3/8" x 3" steel support bars; 5/8" solid steel top ring; leveling feet with a 3/8" diameter threaded steel shaft. All trash receptacles shall be signed to read "TRASH" to match the existing. Sign material, finish, color, font and font size shall be as required to match the existing. Mounting of signs shall be as shown on approved Shop Drawings. All joints of steel components shall be fully welded and ground smooth throughout.
 - 2. Unit shall contain one 36-gallon capacity high density plastic inner liner with its weight not to exceed 6 lbs.. The unit manufacturer shall provide the black plastic inner liners which shall be molded on tooling designed for and owned by the unit manufacturer. The inner liner shall offer maximum capacity and strength with lightweight construction using critical molded ribs, integral handholds, and high strength materials. This style of inner liner shall minimize handling difficulty and facilitate easy emptying and storage while affording long service life. If the existing liners have drain holes in them, the new ones shall be made to match.
- C. REQUIRED OPTIONS (The following materials are for the units specified in 2.3.A.)
 - 1. Lids: Units shall be shipped with manufacturer's standard tapered formed lid with formed dome and with self-closing door. The lids shall be made of the manufacturer's standard high strength plastic material designed to match the selected manufacturer's standard color. Each lid shall be provided with a stainless steel aircraft cable and attachments to secure the lid to the unit.
 - 2. Color shall match existing.
 - 3. Mounting plate: Standard (1) anchor bolt hole.
- D. FINISHES (The following is based upon the units specified in Paragraph 2.3.A.)
 - 1. All fabricated metal components are steel shotblasted, etched, phosphatized, preheated, and electrostatically powder-coated with TGIC polyester powder coatings. Products are fully cleaned and pretreated, preheated and coated while hot to fill crevices and build coating film. Coated parts are then fully cured to coating manufacturer's specifications. The thickness of the resulting finish averages 200-250 microns.

2.4 FLOWER VASE RECEPTACLE

- A. Flower vase receptacles shall match existing which are Victor Stanley Ironsides S-242 units.

- B. MATERIALS: (The following materials are for the units specified in Paragraph 2.4.A.
1. Flower vase receptacles shall match the existing Victor Stanley units as indicated above, with a special light weight hinged lid designed for the VA Cemeteries. Flower vase receptacles shall be of the size indicated on the Contract Drawings, and shall be of the same construction, finish and indicated Victor Stanley color as the trash receptacles, with the following exceptions:
 2. All flower vase receptacles shall be signed to read "FLOWER VASES" as indicated on the details in the Contract Drawings.
 3. The "Floral Regulations" decal shall be as indicated on the Contract Drawings and be factory applied to the top of the receptacle lid. Decal shall be pressure sensitive vinyl designed for outdoor use. The content of the decal, lettering color and background color of decal shall be as approved during the shop drawing process. The materials for the decal shall be regularly used by the manufacturer for flower vase receptacles at VA National Cemeteries.

2.5 WATER SPIGOT ASSEMBLIES

- A. Water spigots shall match existing (Murdock-Super Secur M-ESHSC-175VA) with the approved Victor Stanley color coating matching the FWS receptacles. Water spigot that matches the existing shall be from the indicated manufacturer which has at least 5 years of experience producing similar products. The water spigot assembly shall operate with a regulated inlet water pressure of 40 psi which shall be provided through the included pressure regulator installed on the supply line to the spigot prior to the connection to the spigot as well as an isolation valve, both of which shall be installed in a valve box as indicated on the drawings. The Murdock-Super Secur M-ESHSC-175VA spigot shall be of cast aluminum with a long lasting paint coating system, applied to a sand blasted aluminum, with a primer coat and finish coat that matches the Victor Stanley Bronze paint system color on the Flower Vase and Trash receptacles. The water spigot indicated shall be configured to operate with a handle, be self-closing, and operate with 5 lbs. of force or less when the water pressure to the spigot is provided at 40 psi or less. The spigot shall be designed as an anti-freezing jug filler. The outlet for the spigot shall be configured so as to allow the attachment of the manufacturer provided laminar flow device which shall be included on each spigot assembly. The spigot specified herein to match the existing has a top access that allows replacement of the anti-freezing mechanism from the top of the cast aluminum body following removal of the access cover. The manufacturer provided spigot assembly shall also include a flow restrictor that will reduce the flow from the spigot, with the pressure regulator is installed and set correctly to be approximately 2 gpm. The final approved configuration, including the mounting method, shall be as approved during the submittal process.

2.6 FLAG SLEEVES

- A. For existing facilities, furnish flag sleeves at the locations and following the details in the Contract Drawings which match the existing flag sleeves.
- B. Flag sleeves shall be furnished and installed as indicated and shall support the flag pole style selected for this facility as determined by the Operations staff.
- C. Flag sleeve locations shall be marked along the adjoining roadway, by chiseling a mark in the curb perpendicular to the road centerline at the flag sleeve location. The flag sleeve locations shall also be located on the "Record Drawings" for the project and shall be annotated using swing tie measurements from prominent features, at approximate 90 degree angles.

PART 3 - EXECUTION

3.1 INSPECTION

- A. Prior to installation of any of the work in this section, contractor shall inspect the planned installation locations to insure that conditions are not significantly different from those indicated on the contract drawings. All materials shall be inspected prior to installation to insure compliance with the contract documents and to insure there is no damage. Should conditions be different from those indicated on the contract documents, contractor should immediately notify the Contracting Officer/Contracting Officer's Representative (CO/COR).

3.2 PREPARATION

- A. Stake alignment and locations for all site furnishings for review and approval by CO/COR. Verify that all elements in this section "fit" within location provided.
- B. Install items rigid, plumb and true to lines and levels shown.
- C. Assemble (if required) and install items as per manufacturer's printed instructions, or approved shop drawings, unless otherwise specified or shown.

3.3 INSTALLATION

- A. Gravesite Grid Monuments:
 - 1. All material must be checked upon receipt at the job site prior to installation to check for any damage that may have occurred during transport. Units will be installed in complete accordance with manufacturers' recommendations and as shown the Contract Drawings.
 - 2. Cross-hairs on aluminum monument markers shall be field inscribed, based upon accurate Contractor-survey: refer to Contract Drawings.
- B. Flower Watering Stations:
 - 1. Stake location of flower watering stations and obtain approval from CO/COR prior to forming concrete pad. Install concrete pad in accordance with 32 05 23 – CEMENT AND CONCRETE FOR EXTERIOR IMPROVEMENTS.
 - 2. Anchor trash receptacle and flower vase containers as shown on the Contract Drawings and following the manufacturer's recommended installation instructions. Install water

spigot assemblies according to manufacturer's recommendations, including pipe, isolation valve, fittings, pressure reducing valve and valve boxes. All anchoring hardware shall be stainless steel. Coordinate all work with other trades.

C. Flag Sleeves:

1. Install flag sleeves as indicated on the Contract Drawings at the locations indicated. Install the flag sleeves so the flag poles set in them are plumb and insure that the top of the sleeves are set at the correct elevation, based upon finished grade, so as to not interfere with the mowing operations.

3.4 CLEAN UP

- A. Clean up area of excess material and debris. Clean above ground portions of all receptacles and other site improvements.

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