

SECTION 32 3300 – SITE FURNISHING

PART 1 - GENERAL

1.1 SUMMARY

- A. Provide all labor, equipment, materials, incidental work, and construction methods necessary to install designated Site Furnishings and related items as indicated on the Contract Documents, as specified in this Section, and includes, but is not limited to, the following Site Furnishings:

1. AS INDICATED

- B. The following standards shall apply to the work of this Section:

1. ASTM: American Society for Testing and Materials
 - A36 Carbon Structural Steel
 - A53 Pipe, Steel, Black and Hot-dipped, Zinc-coated
 - A108 Steel Bars, Carbon cold Finished, Standard Quantity
 - A123 Zinc (Hot-dip galvanized) Coatings on Iron and Steel Products
 - A153 Zinc Coating (Hot-dip) on Iron and Steel Hardware
 - A193 Alloy-Steel and Stainless Steel Bolting Materials for High
 - A307 Carbon Steel Bolts and Studs, 60000 PSI Tensile Strength
 - A312 Seamless and Welded Austenitic Stainless Steel Pipes
 - A385 Standard Practice for Providing High-Quality Zinc Coatings (Hot-Dip)
 - A500-99 Cold-formed Welded and Seamless Carbon Steel Structural Tubing in
 - A510-96 Wire rods and coarse Round Wire, Carbon Steel
 - B209 Aluminum and Aluminum-Alloy Sheet and Plate
 - C1856 Standard Practice for Fabricating and Testing Specimens of Ultra High-Performance Concrete
2. AWS: American Welding Society
D1.1-2000 Structural Welding Code – Steel Rounds and Shapes
3. AISI: American Iron and Steel Institute
 - AISI M1020 Merchant Quality Steel
 - AISI BS 1449 Part 4, Standard Mill Surface Finished

1.2 SUBMITTALS

A. Submittals shall be made in accordance with 01 33 00 SUBMITTAL PROCEDURES.

B. Product data:

1. Manufacturer's standard product literature.
2. Shop drawings.
3. Installation instructions.
4. Maintenance instructions.
5. Material and color samples.

1.3 QUALITY STANDARDS

A. Manufacturer Qualifications:

1. Minimum 15 years experience in the manufacturing of site furnishings.
2. Reference list of at least 10 major high-use public environments currently using site furnishings fabricated by the manufacturer.

B. Workmanship and finish shall be equal to the best practice of modern shops for each item of work. Metal fabrication shall be accomplished using the highest standards of workmanship. All work shall be executed by experienced mechanics, shall conform to the requirements of the Contract Documents, and meet the following requirements.

C. Exposed surfaces shall have a smooth finish and sharp, well-defined lines and arries.

D. Castings shall have sharp corners and edges and shall be clean, smooth and true to pattern.

E. Where items delivered to the site do not fit the field conditions, notify the Landscape Architect of the discrepancy immediately. Follow up voice communication with a written correspondence detailing the discrepancy between delivered work and constructed condition.

1.4 DELIVERY, STORAGE AND HANDLING

A. Store delivered Site Furnishing items under this Section, in a manner to prevent wracking or stress of components, and to prevent mechanical damage or damage by the elements. All stored materials and items shall be protected from weather, careless handling and vandalism.

B. Items which become rusted or damaged because of non-compliance with these conditions will be rejected and shall be replaced without additional cost to the City.

C. Handle products in accordance with manufacturer's instructions.

D. Store products in manufacturer's original packaging until ready for installation.

1.5 GENERAL INSTALLATION

A. Where anchors, bolts or fasteners are exposed, they shall be configured or secured in such a way as to prevent their casual removal by use of vandal-proof heads or fastenings unless otherwise specified on Drawings.

B. Free-standing site improvement items shall be set plumb and horizontal regardless of the pitch of the finished surrounding grade unless otherwise shown on the Contract Documents.

C. The Contractor shall be responsible for timing the delivery of site improvement items so as to minimize the on-site storage time prior to installation. All stored materials shall be protected from weather, careless handling and vandalism.

- D. Contractor shall be responsible for the correct location of site improvement items. Take particular care to maintain shapes, plumb and level during the pouring of concrete.
- E. All Work shall be accurately set to established lines and elevations and rigidly set in place to supporting construction.
- F. The Contractor shall schedule an on-site meeting with the Landscape Architect and Owner's Representative to review and approve the layout and location of all site furnishings prior to installation.

1.6 COORDINATION

- A. The work of this Section shall be completely coordinated with the work of other Sections. Verify dimensions and work of other trades that adjoin materials of this Section before installing items specified.
- B. Obtain all necessary templates and patterns required from other trades for proper execution of work of this Section. Coordinate the delivery of items, templates, and patterns manufactured by other trades to maintain construction schedule. Receive from other trades items to be installed under this Section.

1.7 GUARANTEE

- A. The Contractor shall furnish and deliver standard written manufacturer's guarantee in Owner's name covering all materials and workmanship under Section in addition to, and not in lieu of, guarantee requirements set forth elsewhere in these Contract Documents, and other liabilities which the Contractor may have by law or other provisions of the Contract Documents.
- B. Supplier shall pay for repairs of any damage to any part of the project caused by defects in his work and for any repair to the materials or equipment caused by replacement. All repairs are to be done to the satisfaction of the Landscape Architect.
- C. Any part of the work installed under this contract requiring excessive maintenance shall be considered as being defective and shall be replaced by the Supplier during the one year guarantee period at no cost to the Owner.

PART 2 – PRODUCTS

2.2 SITE BENCH, TRASH RECEPTACLE

- A. Basis-of-design product: As indicated
 - a. Product Number: As indicated
 - b. Material: As indicated
 - c. Finish:
 - i. Body: As indicated.
 - ii. Base: As indicated
 - d. Mounting: As indicated
 - e. Quantity: As indicated

PART 3 – EXECUTION

3.1 EARTHWORK

- A. All excavation, filling, compacting and grading of backfill materials, including base and subbase materials, ordinary borrow, drainage fill and structural associated with and used in the installation of the items of this Section shall be as specified under respective Division 31 Section.

3.2 ALL SITE FURNISHINGS SUPPLIED UNDER THE WORK OF THIS SECTION

- A. Install in the locations noted on the Contract Documents, in accordance with the manufacturer's written installation instructions.
- B. The Contractor shall be responsible for timing the delivery of site improvement items, so as to minimize on-site storage time prior to installation. All stored materials and items must be protected from weather, careless handling and vandalism.
- C. All Site Furnishing items, including benches and planters, shall be installed level and plumb.
- D. Schedule a site walk with the Landscape Architect to verify in the field the location of all site furnishings prior to installation.

3.3 **ACCEPTANCE STANDARDS**

- A. Site Improvement items fabricated, provided, delivered, and installed under the work of this Section, will be rejected by the Landscape Architect for the following reasons:
 - 1. Site Furnishings do not meet quality standards noted in this Section.
 - 2. Posts are not plumb.
 - 3. Indications of field welding or cutting.
 - 4. Threaded connections are not drawn up tightly. Threads have not been deformed to prevent loosening.
 - 5. Anchorage into pavements is not solid but is perceptibly loose. Anchorage does not meet the requirements of the Contract Drawings.

END OF SECTION 323300