

SECTION 02 86 20
SITE FURNISHINGS

PART 1 - GENERAL

1.1 DESCRIPTION:

The contractor shall provide all labor, materials, equipment and services necessary for and incidental to the installation of all site furnishings including trash receptacle, benches, and bike racks, as shown on the drawings and as specified herein.

1.2 REFERENCES:

- A. American Society for Testing and Materials (ASTM)
- B. American Institute of Steel Construction (AISC)
- C. American Welding Society (AWS)
- D. International Organization for Standardization (ISO) Testing Standards
- E. (LFI) Testing Standards - LFI PT-019 Standard Test for Strength and Durability
- F. American National Standards Institute (ANSI)/ The Business and Institutional Furniture Manufacturer's Association (BIFMA) Testing Standards

1.3 SUBMITTALS:

- A. Product Data: Submit manufacturer's product data, storage and handling requirements and recommendations, installation methods and available colors, styles, patterns and textures.
- B. Shop Drawings: Submit manufacturer's shop drawings, including plans and elevations, indicating overall dimensions. Indicate locations; pertinent details at minimum of 3/4" scale.
- C. Samples: Submit manufacturer's samples of materials, finishes, and colors.
- D. Warranty: Manufacturer's standard warranty.

1.4 QUALITY ASSURANCE:

- A. Manufacturer/Fabricator: Minimum of three (3) years experience of successful experience in the manufacture/fabrication of the type of furnishings specified.
- B. Installers: Minimum of three (3) years successful experience in the installation of the type of furnishings specified.

1.5 PRODUCT DELIVERY, STORAGE AND HANDLING:

- A. Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.

- B. Storage: Store materials in clean, dry area in accordance with manufacturer's instructions. Keep materials in manufacturer's original, unopened containers and packaging until installation.
- C. Handling: Protect materials and finish during handling and installation to prevent damage.

PART 2 - PRODUCTS

2.1 MANUFACTURER [FOR ALL SITE FURNISHINGS]:

- A. Landscape Forms, Inc., 431 Lawndale Avenue, Kalamazoo, Michigan 49048. Toll Free (800) 521-2546. Phone (269) 381-0396. Fax (269) 381-3455. Website www.landscapeforms.com. E-mail: specify@landscapeforms.com, or approved equal.

2.2 TRASH RECEPTACLES [SUPPLY ONE (1)]:

- A. Trash receptacle to be "Gretchen" Trash Receptacle
- B. Style: Side-Opening Style:
 - 1. Outer Diameter: 22 inches.
 - 2. Height: 42 inches.
 - 3. Capacity: 25 gallons.
 - 4. Litter Lid: Constructed of 14 gauge-spun metal, permanently attached to the unit with a pop-up mechanism.
 - 5. Liner Color: Black
- C. Material:
 - 1. Body: Constructed of 1-1/4" x 1-1/2" solid stock boards. Boards have eased edges and ends and all sides are finished prior to assembly.
 - a. PolySite: Constructed of 100% high-density polyethylene (HDPE) derived from recycled post-consumer packaging. Pigment and UV inhibitors are added to HDPE resulting in a product containing over 90% recycled content by weight.
 - 2. Base: Constructed of 1-1/2" steel flat bar, hot rolled ASTM A36.
- D. Mounting: Trash receptacle to be surface mounted with anchor bolt - not provided by manufacturer.
- E. Accessories: Contractor to provide non-corrosive, maximum 3/8" size, stud type expansion anchor, minimum 2-1/2" long.
- F. With expansion anchor, install anchor leaving approximately 1/2" thread protruding from surface. Place unit in position, install hex nut with washer and tighten gently to prevent marring finish.
- G. Contractor to provide ONE (1) trash receptacle total.

2.3 NOT USED

2.4 BENCHES [SUPPLY FOUR (4)]:

- A. Bench to be 'Gretchen' Bench

- B. Style: Backed bench; Depth: 25-1/4 inches; Overall Height: 32 inches; Length: 72 inches.
- C. Arms: 2" wide cast aluminum arm - Loop
- D. Materials
 - 1. Seat and Back: PolySite: PolySite timbers are extruded to 3"x4" molded face boards and 1-1/4" x 1-1/2" interior boards. All boards have eased edges as well as ends. Each board is attached onto a heavy gage steel frame for added strength. Screws are black, phosphate plated.
 - 2. PolySite: 100 percent high-density polyethylene (HDPE) derived from recycled post-consumer packaging. Pigment and UV inhibitors added.
 - 3. Supports: Supports are 713 tenzallooy cast aluminum.
- E. Mounting: Surface mounted with anchor bolts - not provided by manufacturer.
- F. Accessories: Contractor to provide four (4) non-corrosive anchors, maximum 3/8-16 size, minimum 2-1/2" embedded length.
- G. Contractor to provide four (4) benches total.

2.5 FABRICATION

- A. Ship assembled trash receptacles, benches, and bike racks.

2.6 FINISHES [FOR ALL SITE FURNISHINGS]

- A. Finish on Metal: Landscape Forms, Inc. "Pangard II".
 - 1. Primer: Rust inhibitor on ferrous supports.
 - 2. Topcoat: Thermosetting TGIC polyester powder coat. UV, chip, and flake resistant.
 - 3. Test Results: "Pangard II".
 - a. Gloss Consistency, Gardner 60 Degrees, ASTM D 523: Plus or minus 5 percent from standard.
 - b. UV Resistance, Color and Gloss, ASTM G 155, Cycle 7: Delta E less than 2 at 2.0 mils and less than 20 percent loss.
 - c. Cross-Hatch Adhesion, ASTM D 3359, Method B: 100 percent pass.
 - d. Flexibility Test, Mandrel, ASTM D 522: 3 mm at 2 mils.
 - e. Erichsen Cupping, ISO 1520: 8 mm.
 - f. Impression Hardness, Buchholz, ISO 2815: 95.
 - g. Impact Test, ASTM D 2794: 60 inch-pounds at 2.5 mils.
 - h. Pencil Hardness, ASTM D 3363: 2H minimum.
 - i. Corrosion Resistance, 1,500-Hour Test, ASTM B 117: Max. undercutting 1 mm.
 - j. Humidity Resistance, 1,500-Hour Test, ASTM D 2247: Max. blisters 1mm.
 - 4. Color of metal finish: Black.
- B. PolySite Color: Bark. [for trash receptacle and benches]

PART 3 - EXECUTION

3.1 EXAMINATION:

- A. Examine areas to receive trash receptacle, benches, and bike racks.
- B. Notify Architect of conditions that would adversely affect installation or subsequent use.
- C. Do not begin installation until unacceptable conditions are corrected.

3.2 INSTALLATION:

- A. Install trash receptacle, benches, and bike racks in accordance with manufacturer's instructions at locations indicated on the Drawings.
- B. Install trash receptacle, benches, and bike racks plumb, level and true.
- C. Anchor trash receptacle and benches securely in place.
- D. Construct concrete footings for bike racks as shown on drawings. Set sleeves plumb, level and true.
- E. Check furnishings for alignment and hold in position during placement and finishing operations.
- F. All bolts shall be peened over.
- G. All items to be properly set to line and grade, truly plumb in all directions, fasten and set vertically in concrete pavement (benches and trash receptacle) or in concrete footings (bike racks).

3.3 ADJUSTING:

- A. After installations are complete, touch up portions damaged during transportation and installation using same finish to match.
- B. Finish Damage: Repair minor damages to finish in accordance with manufacturer's instructions and as approved by Architect.
- C. Component Damage: Remove and replace damaged components that cannot be successfully repaired as determined by Architect.

3.4 CLEANING:

- A. Clean trash receptacle, benches, and bike rack promptly after installation in accordance with manufacturer's instructions.
- B. Do not use harsh cleaning materials or methods that could damage finish.

3.5 PROTECTION:

- A. Protect installed trash receptacle, benches, and bike rack to ensure that, except for normal weathering, site furnishings will be without damage or deterioration at time of Substantial Completion.

3.6 CLEAN-UP:

On completion of work of this section and after removal of all debris, leave site in clean condition satisfactory to Resident Engineer.
Clean-up shall include off the Medical Center disposal of all items and

materials not required to remain property of the Government as well as
all debris and rubbish resulting from demolition operations.

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