



**SPECIAL PROVISIONS
FOR
SITE FURNISHINGS**

**Woodbury County
STP-U-7057(701)--70-97
BHM-7057(692)--8K-97**

**Effective Date
November 20, 2018**

THE STANDARD SPECIFICATIONS, SERIES 2015, ARE AMENDED BY THE FOLLOWING MODIFICATIONS AND ADDITIONS. THESE ARE SPECIAL PROVISIONS AND THEY SHALL PREVAIL OVER THOSE PUBLISHED IN THE STANDARD SPECIFICATIONS.

153008.01 DESCRIPTION.

This work shall consist of installing benches, bike racks, and trash receptacles at two small seating areas for use by pedestrians, cyclists, or residents of the adjacent neighborhood along the reconstructed Military Road corridor. The site furnishings shall be installed in accordance with these specifications and in conformance with the lines, grades, design and dimensions shown on the plans or otherwise established.

A. Submittals.

1. Product Data for Bench, Bike Rack, Trash Receptacle:
 - a. Manufacturer's installation instructions.
 - b. Manufacturer's complete line of finishes for Engineer's selection.
2. Site Furnishings Schedule: For site furnishings use same designations indicated on plans when preparing Schedule.
3. Maintenance Data for Site Furnishings.

B. Warranty.

Manufacturer's 1 year warranty covering repair or replacement resulting from defects in material or workmanship.

C. Coordination.

All site furnishings shall be laid out in the field and approved prior to installation.

D. Quality Assurance.

1. Source Limitations: Obtain site furnishing through one source from single manufacturer when practicable.
2. Site furnishings shall be installed by a licensed contractor with recent experience installing similar products on streetscape projects.
3. Referenced Standards:
 - ASTM International (ASTM): A53, Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless.

153008.02 Materials.

A. Anchors, Fasteners, Fittings, and Hardware.

1. Manufacturer's standard, corrosion-resistant, coated or corrosion resistant materials, commercial quality.
2. Angle Anchors:
 - a. For inconspicuously bolting legs of site furnishings to on or below grade substrate.
 - b. Provide one anchor per leg.

B. Grout.

1. Nonshrink, nonmetallic, premixed, factory-packaged, nonstaining, noncorrosive, nongaseous grout complying with ASTM C1107.
2. Grout shall be for exterior applications.

C. Erosion Resistant Anchoring Cement.

1. Factory-packaged, nonshrink, nonstaining, hydraulic-controlled expansion cement.
 - a. Formulation manufactured for mixing with potable water at Project site to create pourable anchoring, patching, and grouting compound.
 - b. Resistant to erosion from water exposure without needing protection by sealer or waterproof coating.
2. Anchoring cement shall be for exterior applications.

D. Cast Iron: ASTM A48, Class 30, minimum 30,000 PSI tensile.

E. Malleable Iron: ASTM A47 and ASTM A197.

F. Aluminum.

1. ASTM B308 for particular alloy in standard shapes and extrusions.
2. ASTM B26 for castings.

G. Stainless Steel.

1. ASTM A484 and ASTM A276.

2. Concealed: Type 302 or Type 304.
3. Exposed: Type 316.
 - Finish: ASTM A480 AISI finish No. 4, unless otherwise indicated.

H. Bench.

1. Base Selection – SITESCAPES, Inc.
 - a. Model: Westport Cast Iron Ends Bench.
 - b. Style: Backed Bench with Center Arm Rest – WP1-1011.
 - c. Length: 6 foot length.
 - d. Finish: Powdercoat.
 - e. Color: Black.
 - f. Mount: Surface mount.
2. Optional Selection – Pilot Rock.
 - a. Series/Model: Oak Knoll / B-94.
 - b. Style: Steel strap.
 - c. Length: 6 foot length.
 - d. Finish: Powdercoat.
 - e. Color: Black.
 - f. Mount: Surface mount.
3. Optional Selection – DuMor, Inc.
 - a. Model: Bench 58.
 - b. Options: With Center Armrest.
 - c. Length: 6 foot length.
 - d. Finish: Powdercoat.
 - e. Color: Black.
 - f. Mount: Surface mount.

I. Bike Rack.

1. Base Selection – SITESCAPES, Inc.
 - a. Model: A-Frame Bike Rack.
 - b. Style: 2 inch Round Tubing – AF2-02-SM.
 - c. Mount: Surface mount.
 - d. Finish: Powdercoat.
 - e. Color: Black.
2. Optional Selection – Pilot Rock.
 - a. Model: HRP – Hitching Post Bike Rack.
 - b. Mount: Surface mount.
 - c. Finish: Powdercoat.
 - d. Color: Black.
3. Optional Selection – DuMor, Inc.
 - a. Model: Bike Rack 290.
 - b. Mount: Surface mount.
 - c. Finish: Powdercoat.
 - d. Color: Black.

J. Trash Receptacle.

1. Base Selection – SITESCAPES, Inc.
 - a. Model: Westport Side Door Receptacle.
 - b. Style: 36 gallon capacity, dome top with lock.
 - c. Options: With Plastic Liner included.
 - d. Mount: Surface mount.
 - e. Finish: Powdercoat.
 - f. Color: Black.
2. Optional Selection – Pilot Rock.
 - a. Model: Round receptacle.
 - b. Style: CN-R/SS2 – 36 gallon capacity.
 - c. Options: With Plastic Liner included.
 - d. Mount: Surface mount.
 - e. Finish: Powdercoat.
 - f. Color: Black.
3. Optional Selection – DuMor, Inc.
 - a. Model: Receptacle 107.
 - b. Style: 32 gallon capacity, dome top (DM).
 - c. Options: With Plastic Liner included.
 - d. Mount: Surface mount.
 - e. Finish: Powdercoat.
 - f. Color: Black.

K. Fabrication.

1. Metal Components:
 - a. Form to required shapes and sizes with true, consistent curves, lines, and angles.
 - b. Separate dissimilar metal materials to prevent electrolytic action.
2. Welded Connections:
 - a. Weld connections continuously.
 - b. Weld solid members with full-length, full-penetration welds.
 - c. Weld hollow members with full-circumference welds.
 - d. At exposed connections, finish surfaces smooth and blended so no roughness or unevenness shows after finishing.
 - e. Welded surfaces shall match contours of adjoining surfaces.
3. Pipes and Tubes:
 - a. Form simple and compound curves by bending members in jigs.
 - b. Produce uniform curvature for each repetitive configuration required.
 - c. Maintain cylindrical cross section of member throughout entire bend without buckling, twisting, cracking, or otherwise deforming exposed surfaces of railing components.
4. Exposed Surfaces:
 - a. Polished, sanded, or otherwise finished.
 - b. Surfaces shall be smooth, free of burrs, barbs, splinters, and sharpness.
 - c. Edges and ends shall be rolled, rounded, or capped.

5. Factory Assembly:
 - a. Assemble components in factory to greatest extent possible to minimize field assembly.
 - b. Clearly mark units required for assembly infield.

L. Finishes – General.

1. Comply with NAAMM "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
2. Appearance of Finished Work:
 - a. Variations in appearance of abutting or adjacent pieces are acceptable only if they are within range of approved samples.
 - b. Noticeable variations in same piece are not acceptable.
 - c. Variations in appearance of other components are acceptable if they are within the range of approved samples.
 - d. Assemble or install to minimize contrast.

M. Aluminum Finishes: Manufacturer's standard, baked, polyester, powder coat.

N. Steel and Galvanized Steel Finishes: Manufacturer's standard, baked, polyester, powder coat finish.

O. PVC Finish.

1. Manufacturer's standard, UV-light stabilized, mold-resistant, slip-resistant, matte-textured, dipped or sprayed-on, PVC plastisol finish.
2. Flame retardant.

153008.03 CONSTRUCTION.

A. Examination.

1. Examine areas and conditions, with Installer present, for compliance with requirements for correct and level finished grade, mounting surfaces, installation tolerances, and other conditions affecting performance.
2. Proceed with installation only after unsatisfactory conditions have been corrected.

B. Installation, General.

1. Comply with manufacturer's written installation instructions unless more stringent requirements are indicated. Complete field assembly of site furnishings where required.
2. Unless otherwise indicated, install site furnishings after landscaping and paving have been completed.
3. Install site furnishings level, plumb, true, and positioned at locations indicated on plans.

C. Cleaning.

1. After completing site furnishing installation, inspect components.
2. Remove spots, dirt, and debris.
3. Repair damaged finishes to match original finish or replace component.

153008.04 METHOD OF MEASUREMENT.

The quantity of Benches, Bike Racks, and Trash Receptacles shall be measured on per each item quantity.

153008.05 BASIS OF PAYMENT.

Payment is full compensation for all work prescribed in this specification.