



**SPECIAL PROVISIONS  
FOR  
SITE FURNISHINGS**

**Des Moines County  
EDP-0977(650)--7Y-29  
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**Effective Date  
October 20, 2020**

**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.**

**155046.01 DESCRIPTION.**

**A. Section Includes:**

- Bike racks.
- Trash and Recycling receptacles.
- Benches
- Bus shelters
- Planters
- Tree Grate

**B. Action Submittals.**

1. Submittal Compliance Form: If Basis-of-Design products are provided, Submittal Compliance Form may be submitted in lieu of required. Ensure compliance with requirements included in Product Data: For each type of product.
2. Samples: For each exposed product and for each color and texture specified.
3. Product Schedule: For site furnishings. Use same designations indicated on Plans.
4. Maintenance Data: For site furnishings to include in maintenance manuals.

**155046.02 MATERIALS.**

**A. Bike Racks.**

1. Manufacturers: Subject to compliance with requirements, provide products by the following or approved equal, basis of design:

- a. Landscape Forms, Inc., 7800 E. Michigan Ave, Kalamazoo, Michigan 49048. Phone: (800) 521-2546. Fax (269) 381-3455. Website [www.landscapeforms.com](http://www.landscapeforms.com) E-mail: [specify@landscapeforms.com](mailto:specify@landscapeforms.com)
- b. Model: MultipliCITY Bike Rack

**2. Finishes.**

- a. Top: Domestically sourced thermally modified ash.
- b. Frame: Aluminum casting
- c. Adjustable Leveler: 5/8-11 hex drive set screw, Magni-coated.
- d. Anchor Cover: Aluminum casting
- e. Color: Powder Coat Black

**B. Trash and Recycling Receptacles.**

1. Manufacturers: Subject to compliance with requirements, provide products by the following or approved equal, basis of design:

- a. Landscape Forms, Inc., 7800 E. Michigan Ave, Kalamazoo, Michigan 49048. Phone: (800) 521-2546. Fax (269) 381-3455. Website [www.landscapeforms.com](http://www.landscapeforms.com) E-mail: [specify@landscapeforms.com](mailto:specify@landscapeforms.com)
- b. Model: Generation 50 Receptacle

**2. Finishes.**

- a. Style: Side opening unit.
- b. Mounting: Surface mount with non-corrosive anchoring hardware.
- c. Lid: Aluminum sheet. Welded to 3/16 inch thick aluminum brackets with plastic bumpers. Hinged on one side.
- d. Side panel: Constructed of 3/4 inch by 2 inch solid stock boards. Boards have eased edges. Secured to frame with Magni-coated screws.
  - 1) Exterior: Domestically sourced thermally modified ash.
  - 2) Interior: Domestically sourced thermally modified ash.
- e. Front Panel: Formed carbon steel sheet shall be laser or water jet engraved with "Greater Burlington" word art.
- f. Inner Frame: Formed carbon steel sheet.
- g. Liner: Rotationally molded linear low density polyethylene. Color is black.
- h. Base: Rotationally molded linear low density polyethylene. Color is black. Base is filled with concrete for stability.
- i. Color: Powder Coat Black.

**C. Benches.**

1. Manufacturers: Subject to compliance with requirements, provide products by the following or approved equal, basis of design:

- a. Landscape Forms, Inc., 7800 E. Michigan Ave, Kalamazoo, Michigan 49048. Phone: (800) 521-2546. Fax (269) 381-3455. Website [www.landscapeforms.com](http://www.landscapeforms.com) E-mail: [specify@landscapeforms.com](mailto:specify@landscapeforms.com)
- b. Model: Generation 50 Bench

**2. Finishes.**

- a. Style: Surface Mount, Backed.
- b. Arms: Angled arms – end only.
- c. Face board style: Straight cut face board.
- d. Seat and Back Wood: Domestically sourced thermally modified ash. Wood consist of 2 3/16 inch by 1 3/8 inch solid wood interior boards. All boards have eased edges as well as ends. Unfinished.
- e. **Framework.**
  - 1) Supports: 319 or 356 cast aluminum.

- 2) Arms: 319 or 356 cast aluminum.
- 3) Center strap: 6063-T52 formed aluminum extrusion.
- 4) Board attaching hardware: carbon steel with Magni-coat.
- 5) Cantilever and top of wall surface mount plate: 0.375 inch thick 6061-T651 ASTM B209 aluminum plate.

**f. Mounting.**

- 1) Two 1/2-13 stainless steel drop-in anchors.
- 2) Two custom surface mount bolts with 1/2-13 thread with Magni-coat.
- 3) Two 1/4-20 x 1/2 inch slotted set screws with Magni-coat.
- 4) Two footpads, polypropylene, natural color.

**g. Metal Color: Powder Coat Black.**

**D. Bus Shelters.**

1. Manufacturers: Subject to compliance with requirements, provide products by the following or approved equal, basis of design:
  - a. Duo-Gard Industries, Inc., 40442 Kopperrick Rd., Canton, Michigan 48187. Phone: (734) 207-9700 Website [www.duo-gard.com](http://www.duo-gard.com) E-mail: [info@duo-gard.com](mailto:info@duo-gard.com)
  - b. Model: Reverse Barrel Vault Roof.
    - 5 foot by 10 foot Shelter (Jefferson St)
    - 6 foot by 12 foot Shelter (Main St)
2. Provide front windscreen with two openings.
3. Finish to be dark bronze anodized aluminum framing.
4. Provide 1/4 inch clear tempered safety glass walls.
5. Provide attached anodized aluminum 5 foot bench and backrest (one bench per shelter).

**E. Planters.**

1. Manufacturers: Subject to compliance with requirements, provide products by the following or approved equal, basis of design:
  - a. Form and Fiber, Inc., P.O. Box 2102, Mabank, Texas 75147. Phone: (972) 951-3145 Website [www.formandfiber.com](http://www.formandfiber.com) E-mail: [info@formandfiber.com](mailto:info@formandfiber.com)
  - b. Model: Essentials Series Concrete Planters
    - ES\_40: 26 inches (L) by 26 inches (W) by 40 inches (H), Concrete, 3 inches thick
    - ES\_30: 30 inches (L) by 30 inches (W) by 30 inches (H), Concrete, 3 inches thick
    - ES\_24.2: 48 inches (L) by 48 inches (W) by 24 inches (H), Concrete, 3 inches thick
2. Minimum 5810 psi at 30 days.
3. Lighting sanded and sealed inside and out. Standard sealant to be a modified polymer satin/matte finish.
4. Standard drain holes required.
5. Color: Graphite, Davis 8084.

**F. Tree Grates.**

1. Manufacturers: Subject to compliance with requirements, provide products by the following or approved equal, basis of design:
  - a. Neenah Foundry, Inc., 2121 Brooks Avenue, Neenah, Wisconsin 54956. Phone: (920) 855-5075 Website [www.formandfiber.com](http://www.formandfiber.com) E-mail:

[construction.sales@neenahenterprises.com](mailto:construction.sales@neenahenterprises.com).

- b. Model: R-8815-B, 48 inches by 120 inches.
2. Two-piece grate, 18 inch diameter tree opening, 0.25 inch slot openings, 762 pounds per set.
3. Standard concrete frame installation where adjacent to sidewalks. Standard surface mount frame installation at back of curb.

#### **G. Material Treatment.**

1. Aluminum: Alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated; free of surface blemishes and complying with the following:
  - a. Rolled or Cold-Finished Bars, Rods, and Wire: ASTM B211.
  - b. Extruded Bars, Rods, Wire, Profiles, and Tubes: ASTM B221 (ASTM B221M).
  - c. Structural Pipe and Tube: ASTM B429/B429M.
  - d. Sheet and Plate: ASTM B209 (ASTM B209M).
  - e. Castings: ASTM B26/B26M.
2. Steel and Iron: Free of surface blemishes and complying with the following:
  - a. Plates, Shapes, and Bars: ASTM A36/A36M.
  - b. Steel Pipe: Standard-weight steel pipe complying with ASTM A53/A53M, or electric-resistance-welded pipe complying with ASTM A135/A135M.
  - c. Tubing: Cold-formed steel tubing complying with ASTM A500/A500M.
  - d. Mechanical Tubing: Cold-rolled, electric-resistance-welded carbon or alloy steel tubing complying with ASTM A513/A513M, or steel tubing fabricated from steel complying with ASTM A1011/A1011M and complying with dimensional tolerances in ASTM A500/A500M; zinc coated internally and externally.
  - e. Sheet: Commercial steel sheet complying with ASTM A1011/A1011M.
  - f. Expanded Metal: Carbon-steel sheets, deburred after expansion, and complying with ASTM F1267.
  - g. Malleable-Iron Castings: ASTM A47/A47M, grade as recommended by fabricator for type of use intended.
  - h. Gray-Iron Castings: ASTM A48/A48M, Class 200.
3. Stainless Steel: Free of surface blemishes and complying with the following:
  - a. Sheet, Strip, Plate, and Flat Bars: ASTM A240/A240M or ASTM A666.
  - b. Pipe: Schedule 40 steel pipe complying with ASTM A312/A312M.
  - c. Tubing: ASTM A554.
4. Anchors, Fasteners, Fittings, and Hardware: Stainless steel; commercial quality, tamperproof, vandal and theft resistant.

#### **H. Fabrication.**

1. Metal Components: Form to required shapes and sizes with true, consistent curves, lines, and angles. Separate metals from dissimilar materials to prevent electrolytic action.
2. Welded Connections: Weld connections continuously. Weld solid members with full-length, full-penetration welds and hollow members with full-circumference welds. At exposed connections, finish surfaces smooth and blended, so no roughness or unevenness shows after finishing and welded surface matches contours of adjoining surfaces.
3. Pipes and Tubes: Form simple and compound curves by bending members in jigs to produce uniform curvature for each repetitive configuration required; maintain cylindrical cross section of member throughout entire bend without buckling, twisting, cracking, or otherwise deforming exposed surfaces of handrail and railing components.

4. Exposed Surfaces: Polished, sanded, or otherwise finished; all surfaces smooth, free of burrs, barbs, splinters, and sharpness; all edges and ends rolled, rounded, or capped.
5. Factory Assembly: Factory assemble components to greatest extent possible to minimize field assembly. Clearly mark units for assembly in the field.

**I. General Finish Requirements.**

Appearance of Finished Work: Noticeable variations in same piece are unacceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

**J. Aluminum Finishes.**

1. Powder-Coat Finish: Manufacturer's standard polyester powder-coat finish complying with finish manufacturer's written instructions for surface preparation, including pretreatment, application, baking, and minimum dry film thickness.
2. Anodize: Standard anodizing finish complying with finish manufacturer's written instructions for surface preparation, including pretreatment, and application.

**K. Planter Fill Materials.**

1. Nonwoven geotextile fabric complying with Article 4196.01, B, 2 of the Standard Specifications meeting the requirements for subsurface drainage.
2. Modified Soil as defined in the Iowa Storm Water Management Manual-Specifications, Bioswales section.

**155046.03 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 of the Work.
2. Proceed with installation only after unsatisfactory conditions have been corrected.

**B. Installation.**

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 securely anchored at locations indicated on Plans.
4. Planter installation shall include filling planter with planting soil defined as Modified Soil in the Iowa Storm Water Management Manual-Specifications, Bioswales. Place a single layer of nonwoven geotextile fabric over the entire bottom and 12 inches minimum up each side of the planter. All drain holes shall be completely covered by geotextile fabric with a minimum 10 inches overlap beyond drain holes. Carefully backfill planter with soil mix in 10 inch lifts, wetting soil between each lift to accommodate settling. Soil shall be placed to within 2 inches of planter rim.

**155046.04 METHOD OF MEASUREMENT.**

Items will be measured per each as documented.

**155046.05 BASIS OF PAYMENT.**

Payment will be for the measured quantity at the contract unit price for the type and size of each bid item. This payment shall be full compensation for, fabrication, delivery to site, furnishing material, labor, tools necessary, and installation of items.

- Payment for Bicycle Racks shall per each item.
- Payment for Receptacles, Trash/Recycling shall per each item.
- Payment for Benches shall per each item.
- Payment for Bus Shelters shall per each item.
- Payment for Planter Pot shall per each item.
- Payment for Tree Grates shall per square foot.