

**City of Milwaukee**  
**Department of Public Works**

**Milwaukee Water Works**

**Material Specifications for**  
**Repair Lids for 2½” and 3” Service Boxes**  
**(Buffalo Pattern)**



City of Milwaukee Specification No. 30-C-2  
Revised December 17, 2019

I. **GENERAL REQUIREMENTS:** Vendors bidding through the Department of Administration – Business Operation Division, Procurement Services Section, shall comply with the latest version of City of Milwaukee Specification No. 70b-D-7, except as modified herein.

II. **TECHNICAL REQUIREMENTS**

- A. **Description:** Repair lids shall consist of a circular lid, two jaws, a standard 27/32” pentagon head screw and a spreader. Repair lids are used for replacing broken or missing lids on new and old-style Buffalo Pattern type curb boxes. Minneapolis style shall be complete lids with brass plug.
- B. **Material:** The repair lids shall be cast iron in accordance with ASTM-A48 Class 20, 30, 35 or approved equal. The pentagon screw or Minneapolis style plug shall be bronze meeting ASTM B62, or 18-8 stainless steel meeting ASTM F593.
- C. **Repair Lid Design:** The jaws of the lid shall be capable of being inserted inside a 2½” or 3” service box top section. When the pentagon screw is tightened, the jaws shall expand and contact the sides of the service box, locking the repair lid inside the service box. Repair lids will be of various styles. “Outside” style shall fit around and over the service box top. “Flat” style shall fit inside and on top of the service box top. Flat, “No skirt” shall be flat style without an outer vertical skirt. Covers shall have the word “WATER” cast in or with raised letters. The pentagon screws shall have the end threads upset after assembly to prevent the screw from being removed. Minneapolis style shall be 1 ¼ ” female NPT.
- D. **Workmanship and Finish:** The cast iron service box and components shall be free from blowholes, cold shots, shrinkage defects, cracks, other injurious defects and shall have a normal smooth casting finish.
- E. **Coating:** All cast iron repair lids shall be thoroughly coated with asphaltum pitch varnish or approved equal.
- F. **Certification:** Certification of compliance with provisions of the American Iron and Steel Act shall be furnished with every order.

III. **ACCEPTABLE BRANDS:** Following brands are acceptable to the City of Milwaukee:

**Bingham & Taylor** – 2 ½” flat style repair lid, model I2LBWREPOB; 2 ½” outside style repair lid, model I2LBWREP10374; 3” flat style, model I3LBWREPOB; 3” flat style (no skirt), model I3LBWREPNOSKB, 2 ½” Flat Style (no skirt) I2LBWREPMIL, 1 ¼” Minneapolis style I2LPA1.25W

**Trumbull** – 2 ½” outside style repair lid, model T-374; 3” outside style model T-375

**Mueller Co.** – 2 ½” outside style repair lid, model 10374 only