



Conservation
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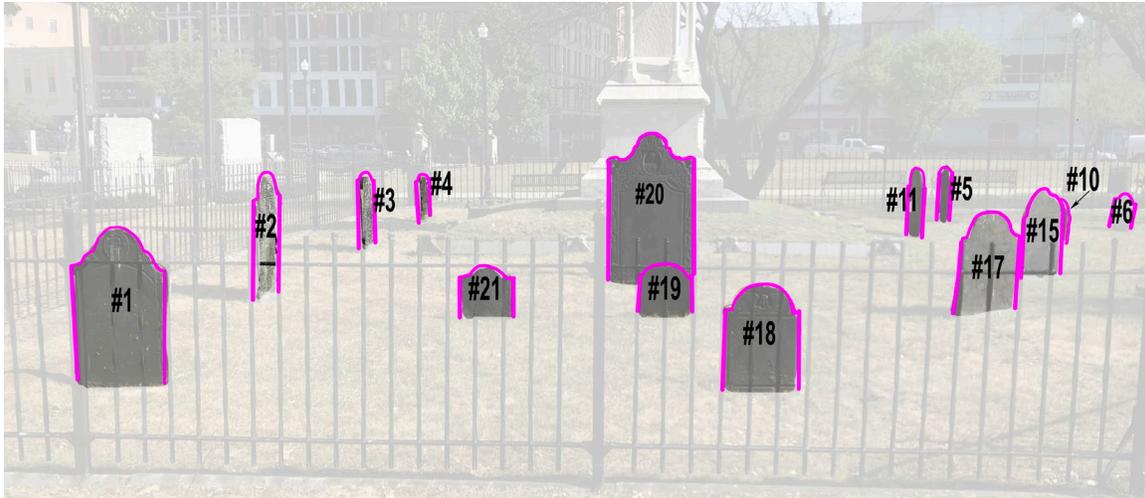
**BIGELOW MONUMENT CONSERVATION ASSESSMENT
HEADSTONE ADDENDUM
WORCESTER, MASSACHUSETTS**



Timothy Bigelow Memorial Monument and headstones

CEMETERY HEADSTONES

The small cemetery surrounding the Bigelow Monument has 21 slate headstones dating to the 18th century (see photos numbering map). The stones are worn and have some past weathering. All of stones have surface soil and biological growth, with some lichen (a slow growth bio-matter composed of a fungi and algae).



Headstones facing north; starting in southwest corner and numbering clockwise around the monument.



Headstones view facing west



Left: headstone #1 front view



Right: headstone #1 rear view



Left: headstone #2 front view



Right: headstone #2 rear view



Left: headstone #3 front view **Right:** headstone #3 rear view



Left: headstone #4 front view **Right:** headstone #4 rear view



Left: headstone #5 front view **Right:** headstone #5 rear view



Left: headstone #6 front view **Right:** headstone #6 rear view



Left: headstone #7 front view **Right:** headstone #7 rear view



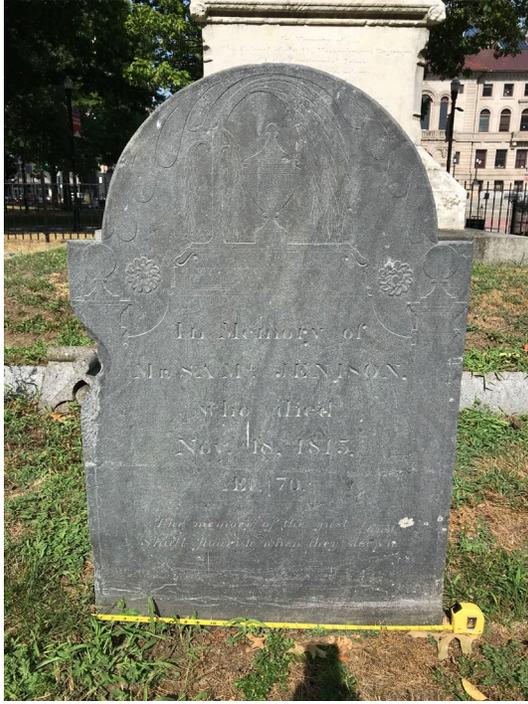
Left: headstone #8 front view **Right:** headstone #8 rear view



Left: headstone #9 front view **Right:** headstone #9 rear view



Left: headstone #10 front view **Right:** headstone #10 rear view



Left: headstone #11 front view **Right:** headstone #11 rear view



Left: headstone #12 front view **Right:** headstone #12 rear view



Left: headstone #12 proper right view **Right:** headstone #12 proper left view



Left: headstone #13 front view **Right:** headstone #13 rear view



Left: headstone #14 front view **Right:** headstone #14 rear view



Left: headstone #15 front view **Right:** headstone #15 rear view



Left: headstone #16 front view **Right:** headstone #16 rear view



Left: headstone #17 front view **Right:** headstone #17 rear view



Left: headstone #18 front view **Right:** headstone #18 rear view



Left: headstone #19 front view **Right:** headstone #19 rear view



Left: headstone #19 concrete front view **Right:** headstone #19 concrete rear view



Left: headstone #20 front view Right: headstone #20 rear view



Left: headstone #20 detail front view Right: headstone #20 detail loss



Left: headstone #21 front view **Right:** headstone #21 rear view

HEADSTONES

The goal of cleaning the headstones is to remove surface soil, biological growth and stains from the surface of the stone without damaging the stone substrate. Care must be taken not to over clean the headstones. No caustic materials, abrasives, or cleaning with materials and methods not specified here are permitted.

1. Photograph conditions before treatment in high resolution digital JPEG files each image labeled with monument name, date, brief description, and "BT" (indicating before treatment).
2. Brush the stones with small soft brushes to remove loose dirt and biomatter.
3. Clean the headstones by first wetting the stone completely with deionized or distilled water brought to the site (do not use local municipal water).
4. Using Nilodor Bio-Enzymatic Urine Digester 10% in distilled water using soft natural bristle brushes or soft nylon bristle brushes to remove biomatter. Biocide D/2, sold by Biological Solutions, Inc. may be substituted. Rinse headstones.

5. Wash headstones again with 4% Orvus WA Paste in the distilled water, again using very soft brushes, and thoroughly rinse with the deionized or distilled water.
6. After drying, stabilize the upper loss area and broken edge of Headstone # 15 loss area using 7% Acryloid B-72 in acetone, applying only to damaged area with a soft natural bristle brush.
7. Straighten and re-set headstone #12 by removing 4 inches of grass around headstone and reserve. Remove current small stones that have not effectively supported the headstone. Gently dig downward and remove soil surrounding the headstone 8 to 12" downward, or until the bottom edge of the headstone is visible. Reserve the earth using a short 2" x4" piece of wood to support the headstone upright. Fill the lower half portion of the of the void with clean crushed washed stone with 1/2" wide pebbles. The angle of the stone should closely match the surrounding headstones (not necessary directly upright). Fill the remaining void with crushed washed pea stone leaving 2" to return the previously removed earth and grass.
8. Photograph all headstones front and back after treatment in high-resolution JPEG digital format and label each image as "AT" for after treatment.
9. Prepare written report.

Project Standards

All work must comply with the U.S. Secretary of the Interior's Standards for the Treatment of Historic Properties and adhere to the Code of Ethics established by the American Institute for Conservation of Historic and Artistic Works (AICHAW).



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