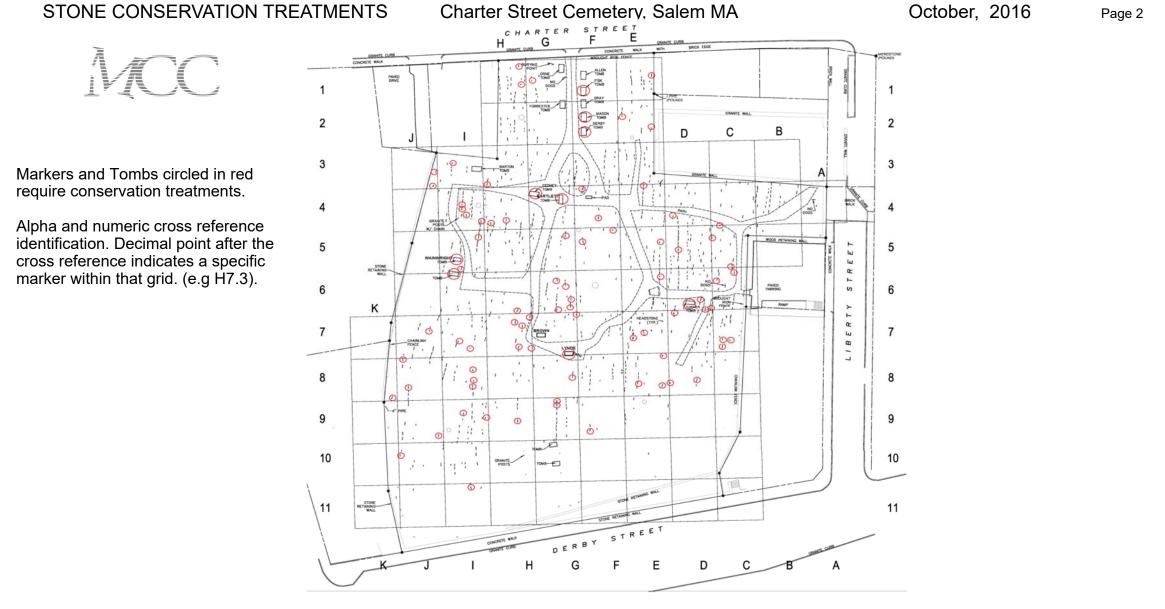
Charter Street Cemetery, Salem MA

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# Charter Street Cemetery, Salem MA

| C5.3  | Hollingworth | William and Eliano | r 1.5 |          | Fracture       |                 |
|-------|--------------|--------------------|-------|----------|----------------|-----------------|
| C7.2  | Willard      | Josiah             | 1.5   |          | Fragment       | Investigate     |
| D4.1  | n.a.         |                    | 1.5   |          | Fragment       | Investigate     |
| D6.1  |              | Turner             | 1     | Tomb     | Secure top     | Consolidate     |
| D6.3  | Beadle       | Thomas             | 1     | Reset of | f pathway      |                 |
| E2.1  | Brown        | John               | 1.5   | Tilt     |                |                 |
| E7.2  | Grafton      | Jehoadan           | 1.5   | Tilt     | Fracture       |                 |
| F1.1  |              | Fisk               | 1     | Tomb     | Secure top     | Consolidate     |
| F2.2  |              | Derby              | 1     | Tomb     | Secure top     | Repoint (2)     |
| F5.1  | Chatwel (?)  | Nicholas           | 1.5   |          | Fractured      | Metal           |
| G4.1  |              | Gedney             | 1     | Tomb     | Stucco Failure | Consolidate     |
| G4.2  |              | Bartlett           | 1     | Tomb     | Stucco Failure | 1               |
| G7.1  |              | Lynde              | 1     | Tomb     | Top Failure    | Missing plaques |
| H1.1  | Millet       | Elizabeth          | 1.5   |          | Fractured      |                 |
| H7.2  | n.a.         |                    | 1.5   |          | Fragment       | Investigate     |
| H7.4  | Seldon       | Capt. Robert       | 1     |          | Fractured      |                 |
| 15.2  |              | Wainwright         | 1     | Tomb     | Secure top     | stucco failure  |
| 15.3  | Higginson    | Mary               | 1.5   | Tilt     |                |                 |
| l6.1  | Bradstreet   | Simon              | 1     | Tomb     | Secure top     | stucco failure  |
| J10.1 | n.a.         |                    | 1.5   |          | Fractured      | Restorable?     |
| J3.1  |              | Beckett            | 1.5   |          | Fractured      | New base        |
| J8.1  | Barnard      | Samuel             | 1.5   | Tilt     |                |                 |
| J8.2  | Clover       | Susanah            | 1.5   |          | Fracture       | Metal           |
|       |              |                    |       |          |                |                 |

The initial assessment identified 23 priority 1 and 1.5 markers to be conserved and are listed in the table to the left. Upon excavating markers C7.2 and J10.1 their condition was found to be un-restorable.

October, 2016

The following additional markers were added to this list and conserved.

| C5.1  | NF    | Nabby Frye         | Tilted | Fractured |
|-------|-------|--------------------|--------|-----------|
| D4.1A | W.E.B | (adjacent to D4.1) | Tilted |           |
| G6.4  | Jayne | Priscilla          | Tilted |           |
| H7.3  | Hart  | Mary               | Tilted |           |
| 15.4  | Smith | Stephen            | Tilted |           |

# MONUMENT CONSERVATION COLLABORATIVE LLC, NORFOLK, CT

#### **Standards of Practice**

The goal of the cemetery conservator is to preserve both the substance and significance of funerary monuments. Because of the physical proximity of the visitor to the artifacts, cemetery conservation procedures demand closer tolerances of color and texture than are generally enforced in the related field of architectural historic preservation. They require the collaboration of the conservator and the historian/curator on ethical, technical and aesthetic considerations, especially with regard to issues of the restoration of inscriptions and decoration.

In general, cemetery conservators have in the recent years, been moving toward a "conserve as found" approach, emphasizing the preservation of monuments via materials and methods that are dedicated to retarding environmental processes of decay. "Preservation implies stabilization".

The goal of treatments and cleaning is not to return the monument to a "like new" appearance, but to remove particulate soiling, staining and biological growth that may interfere with successful restoration.

#### **Documentation**

Prior to starting any work, all gravestones, tombs and other monuments to be restored were digitally recorded. A condition assessment form was prepared in April of 2016 for each monument requiring conservation, describing existing conditions and recommended treatments.

Documentation was made of all conservation treatments performed, and a completed set of these documents is enclosed. Before images are included from the original condition assessment. All "after" digital images are recorded on the enclosed DVD and are identified with the markers ID number.

#### MONUMENT CONSERVATION COLLABORATIVE LLC, NORFOLK, CT

# DESCRIPTION OF TREATMENTS Resetting Tilted and Sunken Markers

Earlier gravestones are typically long panels of stone that were set directly into the ground. After determination of the correct location and orientation of the stone, soil was removed to an appropriate depth. Gravel (or broken stone) is introduced to establish a stable base.

The stone is made plumb and level, and set in plane with the adjacent markers. Backfilling to be done with sand and gravel, wetted and compacted. Disturbed areas replaced with the existing topsoil and turf.

Since the existing conditions of these marker are typically not discovered until excavating, there can be a number of restoration variables.

Breaks at, or just below grade are very common. Most of these markers will require new bases, since the success of below and near grade repair with structural adhesives is limited.

Fabrication of a base may also be necessary to re-erect the upper fragment of earlier gravestones that now do not have adequate height for proper re-setting, i.e., for positioning to permit the viewing of inscription and decoration.

A new below-grade base is also fabricated when an original base cannot be located, or an existing base is damaged beyond repair.



18th century markers often have as much below the ground as above. Only upon excavating this marker for resetting does the below grade portion becomes apparent.

MONUMENT CONSERVATION COLLABORATIVE LLC, NORFOLK, CT

# DESCRIPTION OF TREATMENTS Resetting into New Bases

A new below-grade base was fabricated when an original base could not be located, or the existing base was damaged beyond repair. Fabrication of a base was also necessary to re-erect the upper fragment(s) of earlier gravestones that did not have adequate length for conventional re-setting. These stones were usually fractured at or near the ground level and their lower elements are missing.

Bases were made on site by casting in place with concrete. The casting is generally 9 to 12 inches deep, and 6 inches greater in both thickness and width than the stone itself. The finished top surface of the base should be entirely below grade. A form for a 1 inch deep setting slot, ½ inch wider and ½ thicker than the stone, was positioned in the concrete. After the base cured, the gravestone was reset into the slot with a cement/lime-based grout as previously described. The top of the new base was covered with topsoil.

Charter Street Cemetery, Salem MA



Form for new below grade concrete



Concrete poured, with form for setting slot in place



H.7.4 Capt Robert Seldon Form removed, ready for resetting marker

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October, 2016

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Charter Street Cemetery, Salem MA

# DESCRIPTION OF TREATMENTS Structural Adhesion

All fragments were carefully cleaned and dry fitted. A thixotropic, thermosetting structural resin (A-5522, by Abatron, Kenosha, WI or equivalent) was thinly and evenly applied along the bond line only. A thixotropic adhesive is a Vaseline-like consistency which does not drip or run, and only moves with pressure. The fragments were aligned, joined with clamps, and adequately braced during curing, which was typically a period of several days depending on the temperature. Excess epoxy is trimmed off with hand tools when partially cured, usually after a day.

Several factors, including weathering and previous repairs, can result in a loss of stone surface, which results in a poor 'fit' at the fracture. After curing, joints and any losses are filled with an appropriately colored cement/lime-based crack filler or restoration mortar (see "Cracks and Losses").



Failed adhesives, mortars and pins are carefully removed before proceeding with new conservation treatments. Mechanical removal was done with hand tools and, when required, smaller power tools.

Clamping and bracing in a vertical position allows gravity to help position fragments.

### MONUMENT CONSERVATION COLLABORATIVE LLC, NORFOLK, CT

# DESCRIPTION OF TREATMENTS Cracks and Losses

The color and texture of all composites used to fill cracks and losses was matched to that of adjacent unsoiled stone. If necessary, composites are surface colored to match the existing surrounding areas. With this procedure, at any future time the stone might be cleaned, and all areas, patched and original, would appear similar.

Fine cracks were filled with an integrally colored cement/lime-based formulation (RepliCal<sup>™</sup> Crack Filler, a cementitious repair composite designed to match weathered surfaces). For marbles, Replical contains specially sized and graded marble aggregates. Larger areas of loss were filled with either Jahn<sup>™</sup> M-70 Restoration Mortar. When appropriate, a pigmented, fluid, pourable pozzolanic hydraulic lime grout is used to fill large voids. (PHLc manufactured by VoidSpan)

After partial curing, the fills were treated with a light acid washing with 5% acetic acid. This final treatment removes any cement or lime from the surface of the filled area and exposes the aggregates of the mix. All treated areas were thoroughly rinsed with water.

For small cracks in slates a pigmented flexible industrial "crack filler" by Sto was used (see Delaminations).

Fills and patches are made to look weathered when necessary. Where lettering and inscriptions are lost, they are not replaced. In these areas the filled plane is kept slightly back from the stone surface to indicate that there is a loss. Areas where there are no inscriptions can be filled level with the original stone.



#H.1.1 Elizabeth Millet (before and After) with loss filled with pigmented Jahn M70 mortar

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# Charter Street Cemetery, Salem MA

# DESCRIPTION OF TREATMENTS Delaminations

The treatment of delaminations is designed to prevent further detachment of stone, by re-establishing cohesion between layers, and preventing the penetration of water.

Because slates have such extreme temperature variations, their continual expansion and contraction will eventually loosen any solid fills or grouts. Thus, most solid fills will fail within a short period of time. What appears to be a simple treatment is actually quite challenging. Recent successful treatments have been with industrial flexible fillers.

All voids caused by delaminating are usually filled along the top side of the marker only. The sides are kept open to allow the escape of any water that may enter the interior.

Best practice begins with the careful removal of loose debris in the voids and surface biological growth, using D-2 biological solution with nylon brushes and plastic hand tools.

Open joints along the top were filled with a pigmented flexible industrial "crack filler" by Sto. Excess grout is immediately removed with damp sponging.

Filling top cavities with a pigmented crack filler by Sto. Material can be applied by trowel or injection. Excess material is immediately wiped off with damp sponging

### MONUMENT CONSERVATION COLLABORATIVE LLC, NORFOLK, CT





# Charter Street Cemetery, Salem MA

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## DESCRIPTION OF TREATMENTS Table Tombs- Resetting

Loose table tops have been moved by inquisitive visitors, and they also can become a hazard. Tops which are set on solid bases where there is little or no likelihood of ever having to remove the top in the future, were secured in their proper orientation using a structural adhesive (Abatron 55-22).



F1.1 Fisk Tomb This loose top can be secured to the solid granite base with a structural adhesive . There is little reason for it to ever be removed.

If it if likely that the tomb will be taken apart sometime in the future a pigmented pozzolanic hydraulic lime mortar (typically #600 PHLc70 by Voidspan) was used to set the ledger top.



F2.2 Derby Tomb This loose top was secured to the granite block base with a soft mortar. If the granite blocks have to be reset in the future the top will be more easily detached.

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# Charter Street Cemetery, Salem MA

# DESCRIPTION OF TREATMENTS Table Tombs– Failing stucco

There are a number of tombs exhibiting typical conditions of deteriorating stucco.

All existing loose, failing or spalling stucco was to be removed and a bonding agent applied to all surfaces. Applications of stucco (1:1:6 with masonry sand) are applied and repeated when required.

The Charter Street Cemetery retains a historical atmosphere and general cleaning of the markers is not required. Initially whitewashing the stucco box tombs was considered, but this was ruled out as they would appear too "new" and unfortunately invite graffiti.





*l6.1 Bradstreet Tomb . Before and after* 





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Charter Street Cemetery, Salem MA

### DESCRIPTION OF TREATMENTS Table Tombs– Failing stone and brickwork



*G7.1 Lynde Tomb Failing stucco. Missing brickwork. Note fallen granite stone on ground to left* 





Fallen granite stone reset and missing bricks replaced

Stucco mix applied to missing plaque area.

All mortar joints in the granite blocks were cleaned of loose material and repointed with a 1:1:6 mix with masonry sand,

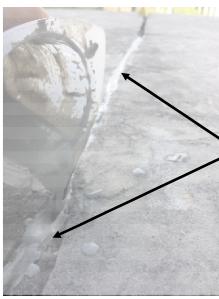
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# Charter Street Cemetery, Salem MA

# DESCRIPTION OF TREATMENTS Table Tombs- Fractured ledger top



*G7.1 Lynde Tomb (Before) Ledger top with multiple fractures and old repairs. Ledger fragments were firmly attached and set askew* 



Ledger fragments were detached from the base, leveled and securely attached with structural adhesive.

Open joints were filled with a flowable PHLc Voidspan grout.

When cured, joints were filled with a pigmented Jahn restoration mortar.





G7.1 Lynde Tomb (After) Ledger top level and secure

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Charter Street Cemetery, Salem MA

# DESCRIPTION OF TREATMENTS Consolidation

Consolidation replaces the natural cementing materials that have been lost or damaged by weathering, improving cohesive properties. It is intended to retard the effects of aging phenomena, increasing the service life of historic materials.

Consolidation must be accomplished in depth to avoid the creation of a hardened "skin" that is likely to detach in a few years. The condition of each stone will determine whether consolidation treatment should be done; and its sequential relationship to other treatments to be undertaken.

Before consolidating all loose material is removed with brushes, small trowels and low air pressure. This material would not benefit from consolidation and would prevent the treatment from reaching the more sound areas of the stone. It would also inhibit the attachment of fills or patching materials.

<u>Sandstones:</u> The consolidation product used is a catalyzed ethyl silicate formulation (Conservare OH100, by ProSoCo, Inc.), following all manufacturer's instructions and safety precautions. Because of the thin delaminations, most sandstone markers do not require the recommended 3 full "cycles"; one full cycle is usually sufficient.

<u>Marbles:</u> Marbles requiring consolidation should first be treated with HCT, a hydroxilating conversion treatment (Prosoco Inc) which protects and strengthens weathered surfaces. Three saturating applications were applied where required. If necessary, marbles can be additionally consolidated with one cycle of OH100.

Application of OH100

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Charter Street Cemetery, Salem MA

October, 2016

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**PRODUCTS/SUPPLIERS** 

**D/2 Biological Solution** 

# **PRODUCTS/SUPPLIERS**

VoidSpan PHLc

VoidSpan Technology 34 Boardman St Salem MA 01970 www.voidspan.com/grout/

# RepliCal™ Jahn™ Restoration Mortars

Cathedral Stone Products Inc. 7266 Park Circle Drive Hanover, MD 21076 USA 800 684 0901 fax 800 684 0904

www.d2bio.com/buy-d2

ОН100 НСТ

Prosoco Inc 3741 Greenway Circle Lawrence Kansas, 66046 www.prosoco.com

Adhesives Aboweld 55-22

> Abatron Inc 5501 95th Avenue Kenosha, WI 53144 414 653 2000 fax 414 653 2019

Sto Flexible Crack Filler

www.stocorp.com/

MONUMENT CONSERVATION COLLABORATIVE LLC, NORFOLK, CT

Inspection Date: 3/31/2016

IS & MJ Inspected By:

#### MONUMENT CONSERVATION COLLABORATIVE LLC PO Box 541, Norfolk, CT 06058 860 307 6695 MCCLLC@gmail.com

**Charter Street Cemetery** Cemetery: NAME ON MARKER n.a. Marker Type: Death Date: Footstone Condition of Inscription: Material: Slate Legible CONSERVATION STRATEGY **EXISTING CONDITIONS** Fragment, Tilted Investigate condition and deter-Delaminating mine if feasible to restore or reset. Reset plumb, poss. new base Fill voids caused by delaminations 1) Hazardous, immediate action 2) Unstable- asap CONSERVATION PRIORITY 1 3) Ongoing deterioration, treat 2-5 years 4) Stable A) Artistic H) Historical P) Visually prominent M) Monitor

TREATMENT

Date(s) of treatment 6/7/2016

1. Area around lower fragment carefully excavated and inspected for soundness. Area probed and buried or overgrown fragments carefully excavated and inspected for soundness.

2. Lower fragment re-set plumb at appropriate height and level onto gravel bed, aligned with adjacent markers. Area backfilled around marker with tamped existing sand and gravel 3. All mating edges of fragments cleaned with water and failed adhesives removed with hand tools

4. Fragments attached with structural adhesive (Abatron 55-

22), clamped and braced until cured.



#### Comments:

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Width 10 Thickness 1 Height 18

#### Inspection Date: 3/31/2016

Inspected By: IS & MJ

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#### **Charter Street Cemetery** Cemetery: NAME ON MARKER William & Elianor Hollingworth Death Date: 11/7/1688 Marker Type: Headstone Condition of Inscription: Legible Material:Slate **EXISTING CONDITIONS CONSERVATION STRATEGY** Attach fragments with structural Fractured Tilted adhesive Reset plumb Possible new below base 1) Hazardous, immediate action 2) Unstable- asap **CONSERVATION PRIORITY 1.5** 3) Ongoing deterioration, treat 2-5 years 4) Stable A) Artistic H) Historical P) Visually prominent M) Monitor Date(s) of treatment 6/24-9/6/2016 TREATMENT 1. Marker fragments excavated and setting area excavated for new below grade cast concrete base sized minimum of 12 inches deep, 12 inches greater in thickness and 6 inches wider than the stone. 2. Mating surfaces cleaned and fragments attached with structural adhesive, brace and clamp until cured.

3. When required, the lower edge of marker is re-squared with minimal loss using a power grinder

4. Marker reset into setting slot with a cement/lime grout (3/2/9) with 000 sand made fluid with a super plasticizer.

5. Disturbed areas backfilled with existing topsoil.

6. Cracks and losses filled with pigmented cementitious Jahn products.

# Comments: Adhesive repair and reset in 1993

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Width 38 Thickness 2.75 Height

Marker# C5.3

Inspection Date: 3/31/2016

Inspected By: IS & MJ

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Cemetery: **Charter Street Cemetery** NAME ON MARKER Dea. Josiah Willard Death Date: Marker Type: Footstone? Material: Slate Condition of Inscription: Missing, illegible EXISTING CONDITIONS CONSERVATION STRATEGY Investigate- restorable? Fallen Reset plumb Fragment Possible new below base 1) Hazardous, immediate action 2) Unstable- asap CONSERVATION PRIORITY 1.5 3) Ongoing deterioration, treat 2-5 years 4) Stable A) Artistic H) Historical P) Visually prominent M) Monitor TREATMENT Date(s) of treatment Area probed and no additional fragments discovered. Fragment found to be not restorable In 1998 listed to be reset into new base

#### Comments:

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Width

Thickness

Height





Not restorable

Inspection Date: 3/31/2016 Ins

Inspected By: IS & MJ

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Cemetery: **Charter Street Cemetery** NAME ON MARKER n.a. Marker Type: Death Date: Footstone Condition of Inscription: Illegible Material: Marble **EXISTING CONDITIONS** CONSERVATION STRATEGY Fallen Investigate- restorable? Fragment Reset plumb Possible new below base 1) Hazardous, immediate action 2) Unstable- asap **CONSERVATION PRIORITY 1.5** 3) Ongoing deterioration, treat 2-5 years 4) Stable A) Artistic H) Historical P) Visually prominent M) Monitor Date(s) of treatment 6/6/2016 TREATMENT 1. Marker carefully excavated removing the soil around tilted markers to an appropriate depth. Marker appears to be sound. 2. Setting area excavated to sufficient depth and stone reset plumb at appropriate height and level onto gravel bed, aligned with adjacent markers. 3. Area backfilled around marker with tamped sand and gravel 4. Disturbed areas re-graded with existing topsoil and sod.



#### Comments:

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Width 7 Thick

Thickness 1 Height 7

Inspection Date: 3/31/2016 Inspected By: IS & MJ

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| ?)   | and and a second |       |           |           | See.               |
|--|------------------|-------|-----------|-----------|--------------------|
| stone  |                  |       |           |           | C.S.S.S.           |
| erial: Marble  | ANA CANADA       |       |           |           | 1.23               |
| ON STRATEGY  |                  | I T   |           |           | 1000               |
| w base   |                  |       | -         |           |                    |
| ediate action 2) Unstable– asap<br>ation, treat 2-5 years 4) Stable<br>ical P) Visually prominent M) Monitor |                  |       |           | 1.44      | a series           |
| <sub>t</sub> 6/6/2016  |                  |       | San -     |           |                    |
| bil around tilted<br>ears to be  |                  | D 4 1 | Jerry .   | + 21-     | k Ze               |
| and stone re-<br>gravel bed,   |                  |       |           |           |                    |
| sand and   |                  |       |           |           | Contraction of the |
| soil and sod.  |                  |       |           |           |                    |
|  |                  |       | & And Ale | 2 Maralin | A STATE            |

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#### CONDITION ASSESSMENT

**Charter Street Cemetery** Cemetery: NAME ON MARKER W.E.B. (? Marker Type: Death Date: Footst Condition of Inscription: Partially Decipherable Mater **EXISTING CONDITIONS** CONSERVATION

> **Reset plumb** Possible new below

# **CONSERVATION PRIORITY 1.5**

1) Hazardous, immedia 3) Ongoing deterioration A) Artistic H) Historica

# TREATMENT

Tilted

Date(s) of treatment

1. Marker carefully excavated removing the soil markers to an appropriate depth. Marker appea sound.

2. Setting area excavated to sufficient depth an set plumb at appropriate height and level onto g aligned with adjacent markers.

3. Area backfilled around marker with tamped sa gravel

4. Disturbed areas re-graded with existing tops

#### Comments:

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<sup>1</sup> Height Width 7 Thickness

Marker# D4.1 adj.

Inspection Date: 3/31/2016

Inspected By: IS & MJ

#### MONUMENT CONSERVATION COLLABORATIVE LLC PO Box 541, Norfolk, CT 06058 860 307 6695 MCCLLC@gmail.com

Cemetery: **Charter Street Cemetery** NAME ON MARKER **Turner Tomb** Death Date: Marker Type: Tomb Condition of Inscription: Decipherable Material: Marble/Granite **EXISTING CONDITIONS** CONSERVATION STRATEGY Top loose and out of plane Secure top with structural adhewith base sive. Treat top with HCT Weathered ledger 1) Hazardous, immediate action 2) Unstable- asap **CONSERVATION PRIORITY 1** 3) Ongoing deterioration, treat 2-5 years 4) Stable A) Artistic H) Historical P) Visually prominent M) Monitor TREATMENT Date(s) of treatment 6/6-6/27/2016 1. Top positioned in line with granite base and attached with structural adhesive placed around edge. (Abatron 55-22) 2. Top treated with 3 saturating applications of HCT, (Prosoco) a hydoxylating conversion treatment to consolidate the surface



#### Comments:

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Thickness

Width

s

Height

| Inspection Date: | 3/31/2016 |
|------------------|-----------|
|------------------|-----------|

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**Charter Street Cemetery** Cemetery: NAME ON MARKER **Thomas Beadle** Footstone? Marker Type: Death Date: Condition of Inscription: Partially Decipherable Material: Slate **EXISTING CONDITIONS** CONSERVATION STRATEGY Tilted Reset plumb-off pathway Possible new below base In pathway 1) Hazardous, immediate action 2) Unstable- asap **CONSERVATION PRIORITY 1** 3) Ongoing deterioration, treat 2-5 years 4) Stable A) Artistic H) Historical P) Visually prominent M) Monitor Date(s) of treatment 6/6/2016 TREATMENT Note: Existing location in pathway is hazardous. New setting location agreed by Town Staff Planner and Landscape Architect. 1. Marker carefully excavated removing the soil around tilted markers to an appropriate depth. Marker appears to be sound. 2. Setting area excavated to sufficient depth and stone reset plumb at appropriate height and level onto gravel bed, aligned with adjacent markers. 3. Area backfilled around marker with tamped sand and gravel

### Comments:

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Width 15.5

Thickness 1.5 Height

Marker# D6.3

Cemetery:

Tilted

sound.

gravel

Inspected By: IS & MJ

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**Charter Street Cemetery** NAME ON MARKER John Brown 12/23/1783 Marker Type: Death Date: Headstone Condition of Inscription: Legible Material: Slate **EXISTING CONDITIONS** CONSERVATION STRATEGY Reset plumb Possible new below base 1) Hazardous, immediate action 2) Unstable- asap **CONSERVATION PRIORITY** 1.5 3) Ongoing deterioration, treat 2-5 years 4) Stable A) Artistic H) Historical P) Visually prominent M) Monitor TREATMENT Date(s) of treatment 6/6/2016 1. Marker carefully excavated removing the soil around tilted markers to an appropriate depth. Marker appears to be 2. Setting area excavated to sufficient depth and stone reset plumb at appropriate height and level onto gravel bed, aligned with adjacent markers. 3. Area backfilled around marker with tamped sand and 4. Disturbed areas re-graded with existing topsoil and sod.



#### Comments:

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Width 14

Thickness 1

Height

Marker# E2.1

Inspection Date: 3/31/2016

Inspected By: IS & MJ

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**Charter Street Cemetery** Cemetery: NAME ON MARKER Jehoadan Grafton Headstone Death Date: 12/5/1707 Marker Type: Condition of Inscription: Legible Material: Slate **EXISTING CONDITIONS** CONSERVATION STRATEGY Structural adhesion Tilted Reset plumb Fractured Possible new below base 1) Hazardous, immediate action 2) Unstable- asap **CONSERVATION PRIORITY 1.5** 3) Ongoing deterioration, treat 2-5 years 4) Stable A) Artistic H) Historical P) Visually prominent M) Monitor TREATMENT Date(s) of treatment 6/28-9/6/2016 1. Fragments carefully excavated and inspected for soundness. Area probed and buried or overgrown fragments carefully excavated and inspected for soundness. 2. All mating edges of fragments cleaned with water and failed adhesives removed with hand tools 3. Fragments attached with structural adhesive (Abatron 55-22), clamped and braced until cured. After partial cure excess epoxy removed with hand tools 4. After curing, marker re-set plumb at appropriate height and level onto gravel bed, aligned with adjacent markers. Area backfilled around marker with tamped existing sand and gravel

#### Comments:

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Width 18 Thickness 1 Height 15

Inspection Date: 3/31/2016 Inspected By: IS & MJ

#### MONUMENT CONSERVATION COLLABORATIVE LLC PO Box 541, Norfolk, CT 06058 860 307 6695 MCCLLC@gmail.com

Cemetery: **Charter Street Cemetery** NAME ON MARKER **Fisk Tomb** Marker Type: Death Date: Tomb Condition of Inscription: Illegible Material: Marble/Granite **EXISTING CONDITIONS** CONSERVATION STRATEGY Top loose and out of plane Secure top with structural adhewith base sive. Treat top with HCT Weathered ledger Missing fragment 1) Hazardous, immediate action 2) Unstable- asap **CONSERVATION PRIORITY 1** 3) Ongoing deterioration, treat 2-5 years 4) Stable A) Artistic H) Historical P) Visually prominent M) Monitor TREATMENT Date(s) of treatment 6/6/-6/27/2016 1. Top positioned in line with granite base and attached with structural adhesive placed around edge. (Abatron 55-22) 2. Top treated with 3 saturating applications of HCT, (Prosoco) a hydoxylating conversion treatment to consolidate the surface 3. Perimeter was tuck-filled with Voidspan mortar binder and clean sand. Note: Corner fragment is missing. Unless it is found no replacement work to be done







#### Comments:

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Thickness

Marker# F1.1

Inspection Date: 3/31/2016 Inspected By: IS & MJ

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Inspection Date: 3/31/2016

Inspected By: IS & MJ

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20

#### **Charter Street Cemetery** Cemetery: NAME ON MARKER Nicholas Chatwel (?) 10/30/1700 Death Date: Marker Type: Headstone Condition of Inscription: Decipherable Slate Material: **CONSERVATION STRATEGY EXISTING CONDITIONS** Metal strap **Remove metal strap** Fractured Attach fragments with structural adhesive

# CONSERVATION PRIORITY 1.5

Hazardous, immediate action
 Unstable- asap
 Ongoing deterioration, treat 2-5 years
 Stable
 Artistic
 Historical
 Visually prominent
 Monitor

# TREATMENT

Date(s) of treatment 6/27-6/29/2016

1. Metal braces removed

Area around lower fragment carefully excavated and inspected for soundness. Area probed, buried or overgrown fragments carefully excavated and inspected for soundness.
 Lower fragment re-set plumb at appropriate height and level

onto gravel bed, aligned with adjacent markers. Area backfilled around marker with tamped existing sand and gravel

4. All mating edges of fragments cleaned with water and failed adhesives removed with hand tools.

5. Fragments attached with structural adhesive (Abatron 55-

22), clamped and braced until cured. Excess epoxy removed with hand tools when partially cured.

6. Voids and cracks filled with pigmented Sto crack filler.

#### Comments:

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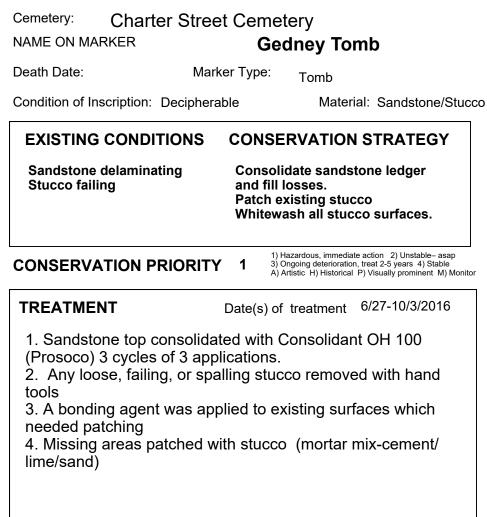
Width 21 Thickness 2 Height

Inspection Date: 3/31/2016 Inspected By: IS & MJ

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#### CONDITION ASSESSMENT



#### Comments:

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Thickness

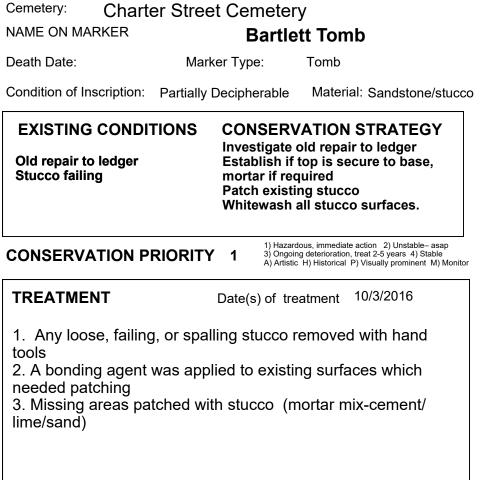
Width

Height

Inspection Date: 3/31/2016 Inspected By: IS & MJ

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Comments:

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Width

Thickness

Height

#### Inspection Date: 3/31/2016

Inspected By: IS & MJ

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41

#### **Charter Street Cemetery** Cemetery: NAME ON MARKER **Priscilla Jayne** Headstone 7/18/1810 Death Date: Marker Type: Condition of Inscription: Legible Material: Slate **EXISTING CONDITIONS** CONSERVATION STRATEGY Tilted **Reset plumb** Possible new below base 1) Hazardous, immediate action 2) Unstable- asap **CONSERVATION PRIORITY 2** 3) Ongoing deterioration, treat 2-5 years 4) Stable A) Artistic H) Historical P) Visually prominent M) Monitor Date(s) of treatment 6/29/2016 TREATMENT 1. Marker carefully excavated removing the soil around tilted markers to an appropriate depth. Marker appears to be sound. 2. Setting area excavated to sufficient depth and stone reset plumb at appropriate height and level onto gravel bed, aligned with adjacent markers. 3. Area backfilled around marker with tamped sand and gravel 4. Disturbed areas re-graded with existing topsoil and sod.

Comments: Mower damage

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Width 26.5 Thickness 1.5 Height

Marker# G6.4

Inspection Date: 3/31/2016 In

Inspected By: IS & MJ

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**Charter Street Cemetery** Cemetery: NAME ON MARKER Lynde Tomb Tomb Death Date: Marker Type: Condition of Inscription: Illegible Material: Marble/Granite **EXISTING CONDITIONS** CONSERVATION STRATEGY Attach ledger with structural ad-**Top ledger fractured** Missing bronze plaques hesive and reset to base. Loose granite block and open Replace loose block and repoint. Fill plaque areas with stucco joints **Repoint mortar joints** 1) Hazardous, immediate action 2) Unstable- asap **CONSERVATION PRIORITY 1** 3) Ongoing deterioration, treat 2-5 years 4) Stable A) Artistic H) Historical P) Visually prominent M) Monitor TREATMENT Date(s) of treatment 9/20-103/2016 1. Fragmented marble ledger dismantled and fragments attached with structural adhesive (Abatron 55-22), clamped and braced until cured. 2. Voids filled with pigmented Voidspan PHLc injection grout, keep damp for min 3 days. When cured, larger areas filled with pigmented Jahn mortar. 3. Top was tuck pointed around perimeter 4. Loose granite block reset and all mortar joints repointed 5. Loose bricks stabilized and bricks added where missing. 6. Plague areas on both sides were stuccoed with masonry mortar mix.





#### Comments:

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Width

Thickness

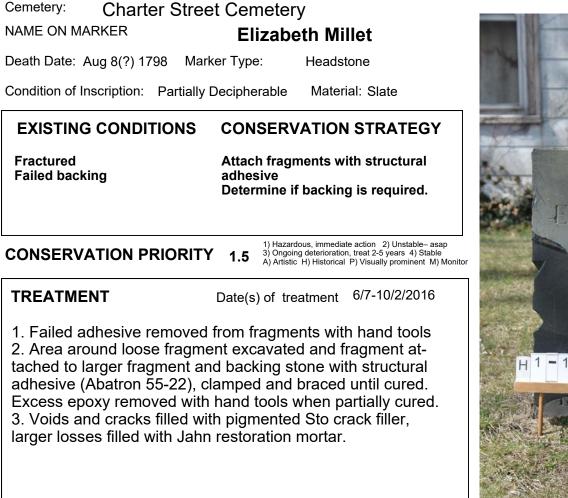
Height

Marker# G7.1

Inspection Date: 3/31/2016

Inspected By: IS & MJ

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#### Comments: Adhesive repair and reset in 1995

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Width 19.5 Thickness 2 Height 25

Marker# **H1.1** 

Inspection Date: 3/31/2016

IS & MJ Inspected By:

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#### CONDITION ASSESSMENT

| Cemetery: Charter Street Cemetery |                    |  |  |  |  |
|-----------------------------------|--------------------|--|--|--|--|
| NAME ON MARKER                    |                    | n.a.   |  |  |  |
| Death Date:                       | Marker Type:       | Headstone  |  |  |  |
| Condition of Inscription: Ille    | gible              | Material: Marble   |  |  |  |
| EXISTING CONDITIO                 | NS CONSE           | RVATION STRATEGY   |  |  |  |
| Tilted<br>Fragmented              | Reset pl           | ragments   |  |  |  |
| CONSERVATION PRIC                 | <b>RITY 1.5</b> 3) | Hazardous, immediate action 2) Unstable– asap<br>Ongoing deterioration, treat 2-5 years 4) Stable<br>Artistic H) Historical P) Visually prominent M) Mor |  |  |  |
| TREATMENT                         | Date(s) of         | treatment 6/27-6/29/2016   |  |  |  |
| 1. Marker carefully exc           | avated removi      | ng the soil around tilted  |  |  |  |

 Marker carefully excavated removing the soil around tilted markers to an appropriate depth. Marker appears to be sound.
 Setting area excavated to sufficient depth and stone re-set plumb at appropriate height and level onto gravel bed, aligned with adjacent markers.

3. Area backfilled around marker with tamped sand and gravel 4. Disturbed areas re-graded with existing topsoil and sod.

#### Comments:

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Width 22.5 Thickness 2 Height 45

Condition of Inscription: Legible

**EXISTING CONDITIONS** 

2/15/1800

Cemetery:

Death Date:

Tilted

NAME ON MARKER

| Inspection Date: 3 | /31 | /20 | 16 |
|--------------------|-----|-----|----|
|--------------------|-----|-----|----|

Inspected By: IS & MJ

#### MONUMENT CONSERVATION COLLABORATIVE LLC PO Box 541, Norfolk, CT 06058 860 307 6695 MCCLLC@gmail.com

| Charter Street Cemetery   |               |
|---|---------------|
| RKER Mary Hart  |               |
| 2/15/1800 Marker Type: Headstone  | a second      |
| scription: Legible Material: Slate  |               |
| CONDITIONS CONSERVATION STRATEGY  |               |
| Reset plumb<br>Possible new below base  |               |
| ATION PRIORITY 2<br>ATION PRIORITY 2<br>1) Hazardous, immediate action 2) Unstable- asap<br>3) Ongoing deterioration, treat 2-5 years 4) Stable<br>A) Artistic H) Historical P) Visually prominent M) Monitor |               |
| NT Date(s) of treatment 6/29/2016   | A DE MAR STAR |
| carefully excavated removing the soil around tilted an appropriate depth. Marker appears to be  | H17-3         |
| area excavated to sufficient depth and stone re-<br>at appropriate height and level onto gravel bed,<br>h adjacent markers.<br>ckfilled around marker with tamped sand and                                    |               |
| d areas re-graded with existing topsoil and sod.  |               |
|   |               |
|   |               |
| eset in 1993  |               |

# CONSERVATION PRIORITY 2

TREATMENT

1. Marker carefully excavated removing the markers to an appropriate depth. Marker sound.

2. Setting area excavated to sufficient dep set plumb at appropriate height and level aligned with adjacent markers.

3. Area backfilled around marker with tam gravel

4. Disturbed areas re-graded with existing

#### Comments: Reset in 1993

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3/31/2016 Inspection Date:

Inspected By: IS & MJ

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**Charter Street Cemetery** Cemetery: Capt. Robert Seldon NAME ON MARKER Marker Type: Headstone 9/4/1797 Death Date: Condition of Inscription: Legible Material: Slate **EXISTING CONDITIONS** CONSERVATION STRATEGY Tilted Reset plumb Attach fragments with structural Fractured adhesive Possible new below base 1) Hazardous, immediate action 2) Unstable- asap **CONSERVATION PRIORITY** 1 3) Ongoing deterioration, treat 2-5 years 4) Stable A) Artistic H) Historical P) Visually prominent M) Monitor Date(s) of treatment 6/27-9/20/2016 TREATMENT

1. Marker and fragment carefully excavated and inspected for soundness. Area probed for buried or overgrown fragments. 2. All mating edges of fragments cleaned with water and failed adhesives removed with hand tools.

3. Fragments attached with structural adhesive (Abatron 55-22), clamped and braced until cured. Excess epoxy removed with hand tools when partially cured.

4. After full cure, marker re-set plumb at appropriate height and level onto gravel bed, aligned with adjacent markers. Area backfilled around marker with tamped existing sand and gravel 5. Voids and cracks filled with pigmented Sto crack filler.

Comments: Adhesive repair and reset in 1995

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Thickness 2 Width 33.5

Height 47

Marker# H7.4

Inspection Date: 3/31/2016

Inspected By: IS & MJ

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Cemetery: **Charter Street Cemetery** NAME ON MARKER Wainwright Tomb Marker Type: Death Date: Tomb Condition of Inscription: Decipherable Material: Sandstone/stucco **EXISTING CONDITIONS** CONSERVATION STRATEGY Investigate old repair to ledger Old repair to ledger Establish if top is secure to base, Stucco failing mortar if required Patch existing stucco Whitewash all stucco surfaces. 1) Hazardous, immediate action 2) Unstable- asap **CONSERVATION PRIORITY** 1 3) Ongoing deterioration, treat 2-5 years 4) Stable ATA AND ME A) Artistic H) Historical P) Visually prominent M) Monitor TREATMENT Date(s) of treatment 10/2-10/3/2016 1. Top found to be securely attached to the base unit TOMAS LOGATI 2. Any loose, failing, or spalling stucco removed with hand tools 3. A bonding agent was applied to existing surfaces 4. All surfaces patched with stucco (mortar mix-cement/ lime/sand)

Width

#### Comments:

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Thickness

Height

Inspection Date: 3/31/2016 Inspected By: IS & MJ

#### MONUMENT CONSERVATION COLLABORATIVE LLC PO Box 541, Norfolk, CT 06058 860 307 6695 MCCLLC@gmail.com



**Charter Street Cemetery** Cemetery: Mary Higginson NAME ON MARKER Death Date: 3/9/1708/9 Marker Type: Headstone Condition of Inscription: Legible Material: Slate **EXISTING CONDITIONS CONSERVATION STRATEGY Reset plumb** Tilted Possible new below base 1) Hazardous, immediate action 2) Unstable- asap **CONSERVATION PRIORITY 1.5** 3) Ongoing deterioration, treat 2-5 years 4) Stable A) Artistic H) Historical P) Visually prominent M) Monitor Date(s) of treatment 6/27/2016 TREATMENT 1. Marker carefully excavated removing the soil around tilted markers to an appropriate depth. Marker appears to be sound.

2. Setting area excavated to sufficient depth and stone reset plumb at appropriate height and level onto gravel bed, aligned with adjacent markers.

3. Area backfilled around marker with tamped sand and gravel

4. Disturbed areas re-graded with existing topsoil and sod.

# Comments:

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Height

Inspection Date: 3/31/2016

Monitor

Inspected By: IS & MJ

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| Ceme<br>NAME  | etery:<br>E ON M/ |                 | Street Cem<br><b>Ste</b>      | etery<br>phen Sm                         | ith   |  |  |
|---|-------------------|-----------------|-------------------------------|--|---|--|--|
| Death   | Date:             | 3/9/1708/9      | Marker Type:                  | Headstone                                | 9   |  |  |
| Condi   | ition of l        | nscription: Leg | jible                         | Mater                                    | ial: Slate  |  |  |
| EX  | ISTING            | G CONDITIO      | NS CONS                       | ERVATION                                 | I STRATEGY  |  |  |
| Tilt  | ed                |                 |                               | Reset plumb<br>Possible new below base   |   |  |  |
|   |                   |                 |                               |  |   |  |  |
| CON   | SERV              |                 |                               | <ol> <li>Ongoing deterioratio</li> </ol> | te action 2) Unstable- asap<br>n, treat 2-5 years 4) Stable<br>P) Visually prominent M) Mor |  |  |
| TRE   | EATME             | INT             | Date(s)                       | of treatment                             | 6/28-6/29/2016  |  |  |
| ma  |                   |                 | cavated remo<br>iate depth. N | •  | il around tilted<br>ars to be   |  |  |
| 2. Setting area excavated to sufficient depth and stone re-<br>set plumb at appropriate height and level onto gravel bed,<br>aligned with adjacent markers. |                   |                 |                               |  |   |  |  |
|   | Área ba           |                 | ind marker w                  | ith tamped                               | sand and  |  |  |
| U U   |                   | ed areas re-    | graded with e                 | existing tops                            | soil and sod.   |  |  |
|   |                   |                 |                               |  |   |  |  |
|   |                   |                 |                               |  |   |  |  |
|   |                   |                 |                               |  |   |  |  |



## Comments:

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Width 16 Thickness 1.5 Height 25

Inspection Date: 3/31/2016 In

Inspected By: IS & MJ

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Width

Thickness

Height

Marker# **16.1** 

**EXISTING CONDITIONS** 

CONSERVATION PRIORITY 1.5

Cemetery:

NAME ON MARKER

Death Date: 6/1774

Fractured Tilted

TREATMENT

than the stone.

Inspection Date: 3/31/2016 Inspected By: IS & MJ

#### MONUMENT CONSERVATION COLLABORATIVE LLC PO Box 541, Norfolk, CT 06058 860 307 6695 MCCLLC@gmail.com

**Charter Street Cemetery** Beckett Headstone Marker Type: Material: Slate Condition of Inscription:Partially Decipherable CONSERVATION STRATEGY Attach fragments with structural adhesive Reset plumb Possible new below base 1) Hazardous, immediate action 2) Unstable- asap 3) Ongoing deterioration, treat 2-5 years 4) Stable A) Artistic H) Historical P) Visually prominent M) Monitor Date(s) of treatment 6/7-10/2/2016 1.Marker fragments excavated and setting area excavated for new below grade cast concrete base sized minimum of 12 inches deep, 12 inches greater in thickness and 6 inches wider 2. Fragments found to be securely attached. 3. When required, the lower edge of marker is re-squared with minimal loss using a power grinder 4. Marker reset into setting slot with a cement/lime grout (3/2/9) with 000 sand made fluid with a super plasticizer. 5. Disturbed areas backfilled with existing topsoil. 6. Cracks and losses filled with pigmented cementitious Jahn

#### Comments:

products.

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Width 18 Thickness 4 Height

15

Inspection Date: 3/31/2016 Inspected By: IS & MJ

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#### Cemetery: **Charter Street Cemetery** NAME ON MARKER Samuel Barnard 11/21/1769 Marker Type: Headstone Death Date: Condition of Inscription: Legible Material: Slate **EXISTING CONDITIONS CONSERVATION STRATEGY** Tilted Reset plumb Possible new below base 1) Hazardous, immediate action 2) Unstable- asap **CONSERVATION PRIORITY 1.5** 3) Ongoing deterioration, treat 2-5 years 4) Stable A) Artistic H) Historical P) Visually prominent M) Monitor TREATMENT Date(s) of treatment 6/27/2016 1. Marker carefully excavated removing the soil around tilted markers to an appropriate depth. Marker appears to be sound. 2. Setting area excavated to sufficient depth and stone re-set plumb at appropriate height and level onto gravel bed, aligned with adjacent markers. 3. Area backfilled around marker with tamped sand and gravel 4. Disturbed areas re-graded with existing topsoil and sod.

Comments:

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Thickness 2 Width 28

Height

38

Marker# J8.1

Cemetery:

Inspection Date: **3/31/2016** 

Inspected By: IS & MJ

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#### Susanah Clover NAME ON MARKER 12/16/1761 Death Date: Marker Type: Headstone Condition of Inscription: Legible Material: Slate **EXISTING CONDITIONS** CONSERVATION STRATEGY **Remove metal supports** Fragmented Structural adhesion Tilted **Reset plumb** Metal supports Possible new below base 1) Hazardous, immediate action 2) Unstable- asap **CONSERVATION PRIORITY 1.5** 3) Ongoing deterioration, treat 2-5 years 4) Stable A) Artistic H) Historical P) Visually prominent M) Monitor TREATMENT Date(s) of treatment

**Charter Street Cemetery** 

1. Metal braces removed

2. Fragments carefully excavated and inspected for soundness. Area probed for buried or overgrown fragments.
 3. All mating edges of fragments cleaned with water and failed adhesives removed with hand tools.

4. Fragments attached with structural adhesive (Abatron 55-22), clamped and braced until cured. Excess epoxy removed with hand tools when partially cured.

5. When fully cured, marker re-set plumb at appropriate height and level onto gravel bed, aligned with adjacent markers. Area backfilled around marker with tamped existing sand and gravel

6. Voids and cracks filled with pigmented Sto crack filler.

#### Comments:

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Width 21.5 Thickness 1 Height 21

Inspection Date: 3/31/2016 Inspected By: IS & MJ

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Cemetery: **Charter Street Cemetery** NAME ON MARKER n.a. Death Date: Marker Type: Headstone Condition of Inscription: Illegible Material: Marble **EXISTING CONDITIONS CONSERVATION STRATEGY** Investigate- Restorable? Fragmented Reset plumb Attach fragments with structural adhesive Possible new below base 1) Hazardous, immediate action 2) Unstable- asap **CONSERVATION PRIORITY 1.5** 3) Ongoing deterioration, treat 2-5 years 4) Stable A) Artistic H) Historical P) Visually prominent M) Monitor TREATMENT Date(s) of treatment Not restorable



Not restorable

#### Comments:

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Thickness

Height

Width