CONSERVATION OF MONUMENTS AND GRAVESTONES AT PINE GROVE CEMETERY, WEST HARWICH MA

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PROJECT DESCRIPTION

In the spring of 2022, Village Green Restoration Inc conserved both gravestones and multi-unit monuments in Pine Grove Cemetery, West Harwich MA. Conservation was carried out by Michael Gallagher and Ethan Howard of Village Green Restoration Inc.

METHODOLOGY GRAVESTONES

Conservation methods adehered to specifications as provided by Ivan Meijer of Building Conservation Inc. A brief description follows.

- Gravestones were identified and documented.
- Downed and leaning gravestones were carefully excavated and hoisted.
- Broken monuments were repaired using Bonstone Clear Knife Grade Epoxy. Stainless steel pins were inserted when necessary and feasible.
- Cracks and areas of less were repaired with the following:
 - · Slate large patches and cracks Edison Coatings Custom System 45. Small cracks and areas of delamination Acryloid B-72, acetone and stone dust
 - Marble Lithomix Natural Hydraulic Cement for Stone Repair "Aged Marble" color.
- Slab Gravestones were reset in 3/4" dense grade bluestone compacted every six inches.
- If a gravestone did not have a sufficient length to set in the ground, a new custom concrete slot base was cast. The slab was set in the new base using a Type N mortar.
- Multi-unit gravestones were disassembled and then re-sett using stainless steel threaded pins set with Bonstone Epoxy on one side and a type n mortar on the opposite side.
- Slot base and multi-unit gravestones were set on new poured concrete foundations of a depth of 3'. Bases were set to new foundations using Type S mortar.

METHODOLOGY MONUMENTS

- Multi part monuments were carefully disassembled and laid on blocking.
- * Rubble foundations were removed and new reinforced concrete foundations were poured.
- New pin holes were drilled in each unit.
- Monuments were reassembled with stainless threaded pins between units. One side
 of the pin was set in Bonstone Epoxy while the opposite was set with Type N thin
 set mortar.
- Joints between units were set with type N thin set mortar and plastic shims.
- Areas of loss and cracks were repaired with Lithomix Natural Hydraulic Lime Stone Repair Mortar.

Name, Road, Lot,Repair	Photo Before	Photo Aerft
Harold Wilson, Pine Ave 3&4 Re-set 3 footstones	ALLE ALLE ALLE ALLE ALLE ALLE ALLE ALLE	MILLIAM S.JR. 1884 — 1925
Frederick Chase Pine Avenue 11 Reset Kenneth Stone Re-set on new foundation, re- pinned		

Name, Lot,Repair	Photo Before	Photo After
Emma Baker 22 Pine Avenue William Baker Stone Straigtened, reset on new foundation repinned		FILERAM S. BAKER Roser And S. C. L. His D. S. C. M. S. Fauthure
Charles Hall 27 Pine Avenue Raise 5 foot markers		
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George Kelley 28 Pine Avenue Reset and align two foot markers		CONTROL OF THE PROPERTY OF THE
JD Chase 33 Pine Avemue Resett and repair White Memorial Reset JOB Memorial	MCH1 May 12 MAS	JOB D. CHASE OCT 8.1839 NOV 4.1919

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Cyrus B Kelley 39 Oak Avenue Nellie reset and repinned		
J.B. O'Brien 40 Oak Avenue Thomas O'Brien Military marker reset.		HOMAS RODREN, O'BBLEN ADSSACHUSETAN PROPERTY OF A POPUL WARNING A SECOND NOVE 193.

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Repair Robert Lothrop 41 Oak Avenue Mary and Gershom footmarkers reset.	CFRV	MARY
Charles Chase 43 Corner markers and 4 footstones reset and realigned.		

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Repair James B Doane 44 Oak Avenue Corner marker reset		
Antone Silver 45 Oak Avenue Octavia Silver reset	TILL DILYER TO BE TO SHIP TO SH	Swife of Profit Sylvies Party

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Oak Avenue	尼尔马克尼斯里斯	
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stones.		

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Repair RS Howes 57 Oak Avenue Gravestone leveled and reset.	Died The State of	Died Died Dec 28, 1907 Aged by Esta Mo
JB Doane 59 Oak Avenue Aligned Father and Mother Reset Father. Cleaned and conserved Obelisk		

Name, Lot, Road,	Photo Before	Photo After
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Alex Baker 60 Oak Avenue Clean and Conserve		ALEXANDER FINDS TURBERING TO THE STATE OF TH
Henry T Nickerson 61 Oak Avenue Father stone reset and aligned		

Name, Lot, Road, Repair	Photo Before	Photo After
Baxter Kelley 62 Oak Avenue Reset and align Emma, Eliza and Baxter footstones.	TEN BINATURA DE LA CONTRACTA D	
J Berry Jr 64 Oak Avenue Reset two footstones	REPRESENTATION	

Photo After Name, Lot, Road, Photo Before Repair James Barnaby 66 Cedar Avenue Clean and Consolidate Large and small memorial Repairs on 2 foundations Father and Mother and unable to read Kelley B Chase 69 Cedar Avenue Reset father and mother.

Name, Lot, Road, Repair	Photo Before	Photo After
Peter Raymond 71 Cedar Avenue Reset two footstones		
RE Howes 73 Cedar Avenue Resett and repair Elinor, Mary and Russel stones.	THE PARTY OF THE P	TOTAL STATE OF THE PARTY OF THE

Name, Lot, Road,	Photo Before	Photo After
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Samuel James 75 Cedar Avenue Reset and repined Theresa stone	HILE TIESE THE TIESE	THE PS A
Virginia Chase Next to Zaddock Chase Cedar Avenue Reset corner marker		

Name, Lot, Road,	Photo Before	Photo After
Repair		
Charles Kelley 84 Cedar Avenue Elizabeth and Charles reset and repined. Military marker reset.		
George F Kelley 88 Cedar Avenue Our Darling reset and repined.		

Name, Lot, Road, Photo Before Photo After Repair Jonathan Kelley 2^{nd} 90 Cedar Avenue Alemena K and stairs reset. Isaiah Ellis 92 Cedar Avenue Double stone Mother & Father reset and repined. Judah and additional stone broken in two pieces repaired and reset.

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Name, Lot, Road,	Photo Before	Photo After
Repair Everett Harris 96 Cedar Avenue 5 footstones reset.	L'RGF	
JA Harris 97 Cedar Avenue Monument cleaned and consolidated.		SOUTH DEALERS STATE OF THE PARTY OF THE PART

Name, Lot, Road, Repair	Photo Before	Photo After
Neri Chase 99 Willow Avenue Reset memorial.		
Thomas Ellis 103 Willow Ave Monument cleaned and conserved.		

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Charles Kelley 111 Willow Save Repaired, repined and reset.	E Parameter Annual Control of the Co	TIPSY AND ADDRESS OF THE PARTY
John Keppel 114 Willow Ave Reset Father stone.		FATHER STATES AND ADDRESS OF THE STATES AND

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Repair		
NW Garland		
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Willow Ave		
Reset corner marker		
Eleanor P Chase 117 Willow Ave Eleanor and Obed stone reset.		ELEANOR DEED SIDEANE WHEN THE

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Repair	394-382-483-481-19-15-7 (4-) 36-35-35-7	
Abbie Small 118 Willow Ave Abbie memorial reset.		
Chase 120 Willow Ave Lavinia stone reset.	The district of the second of	

Name, Lot, Road,	Photo Before	Photo After
Repair		
Joshua Chase 121 Willow Ave Cleaned and consolidated.	CHASE.	
Erastus Chase 124 Willow Ave Obelisk reset and pinned. Sarah Abby Chase reset.		THE PARTY OF THE P

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Martin Chase 147 Linden Ave Jennie Cole Memorial repined and resett		Danoi Many William Branch Blicatura Barrian Ba

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Name, Lot, Road,	Photo Before	Photo After
Repair Benjamin Sears 150 Linden Ave Tree removed, stone reset.		Service Control of the Control of th
Thomas Crew 152 Linden Ave Thomas & Bathsheba stones reset. Corner stone reset. Cobb/Crew memorial cleaned and conservd.	THIS EACH IN THE PARTY OF THE P	

Name, Lot, Road, Repair	Photo Before	Photo After
Nehemiah Smith 153 Linden Ave Nehemiah Smith , Sarah and Jerusha stone reset.		Design of the second of the se
FG Doane 154 Linden Doane Wife and husband stones realigned.		

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Benjamin Chase 157 Linden Rd \$ Headstones and I;amb cleaned and conserved.		
Joseph Baker 161 Elm Ave Caroline and Emiline footstones reset.		

Name, Lot, Road, Repair	Photo Before	Photo After
Peter Chase 163 Elm Ave Peter Chase reset.	SETTA SIAL OICH NOT SET COLOR OF SET COLOR O	PETER B. DHASL BIED NOV T, 1933 ADER SO YES CLARA D. SIALL HIS YES LID MATCH D. DIP. AGEL 75 YAS
Hook lots & Martin Chase Lot 166, 169,178 Elm Ave Reset two corner markers		

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J Walker 179 Elm Ave Removed tree, reset monument.		
Charles Hamilton 180 Elm Avenue Charleds Hamilton reset.	CHARLES IV. HAMILTON	THE RESERVE OF THE PROPERTY OF

Name, Lot, Road,	Photo Before	Photo After
Repair	Thoto Before	Thoto Aitei
Captain Alonzo Chase 184 Elm Avenue 2 footstones reset.		
Ebenezer Smith 185 Elm Ave Memorial reset.		

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Repair Gustavus Crowell 191 Maple Ave Tablet resett	A. GROWEN BARRIES	FOR FART TO SERVICE THE CONTROL OF THE PROPERTY OF THE PROPERT
Celia B Bennett 194 Maple Ave Cora and Charles reset.		

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Susan K Howland 209 Maple Ave Reset Marion Howland.		
JR Sisson 211 Maople Ave Our Darling repaired and reset.		

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Jeremiah G Parks		
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Additional	Photo After
monuments	
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