

## MARKER No. 02: JOHN KENNEDY (d. 1867)

### EXISTING CONDITIONS

- Marble headstone is detached from its sandstone base and lying on the ground in a horizontal position next to the base.
- The headstone's tenon which fits into the slotted base has broken off, yet appears to be salvageable.
- The headstone is stained and contains biological growth, however, it is in good condition.
- The sandstone slotted base is in good condition with slight staining and biological growth.



Before (July 2008)



After (May 2009)

### TREATMENT SUMMARY

#### A. Excavation/Fragment Recovery

1. Excavate partially-buried headstone and tenon fragments.

#### B. Cleaning

1. For removal of biological growth and general soiling, the marble headstone and sandstone base were cleaned with D/2 Architectural Antimicrobial.
  - a. Clean water at low pressure (max 300 psi) and hand-pump sprayer.
  - b. Natural and nylon bristle brushes (varying stiffness and size).
  - c. Avoid dissolution or erosion of the stone.

► stones were successfully cleaned, however, very slight biological staining and discoloration remain, which cannot be removed without harsh methods.

#### C. Re-attachment and Repair

1. Re-attach marble tenon to headstone using two-part epoxy and threaded stainless steel rods.
  - fragment re-attachment clamped in place for 12 hrs.
  - resultant crack and minor losses pointed with custom mixed Type O mortar (lime-based, with marble dust).

#### D. Reset and Level

1. Reset and level sandstone base upon compacted gravel.
2. Reset and plumb marble headstone into slotted sandstone base with a Type O mortar mix.
  - binder-rich mortar (slurry) placed in bottom of slot and joint pointed with Type O mortar.

#### E. Site Preparation and Repair

1. Place pea gravel around base