

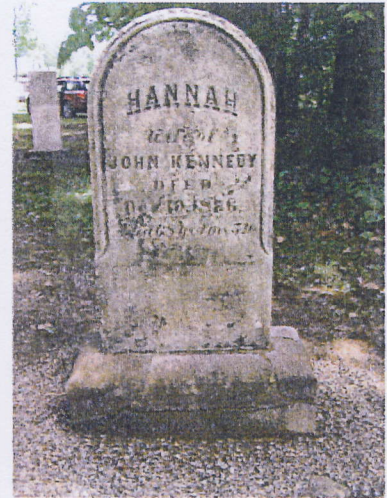
## MARKER No. 01: HANNAH KENNEDY (d. 1876) wife of John Kennedy

### EXISTING CONDITIONS

- Marble headstone is detached from its sandstone base and partially buried in a horizontal position.
- The headstone is stained and contains biological growth, however, it is in good condition.
- The sandstone base is in poor condition and broken into at least five (5) fragments and experiencing biological growth and soiling.



Before (July 2008)



After (May 2009)

### TREATMENT SUMMARY

#### A. Excavation/Fragment Recovery

1. Excavate partially-buried headstone and sandstone base fragments.
  - ▶ the majority of the sandstone base fragments were recovered.

#### B. Cleaning

1. For removal of biological growth and general soiling, the marble headstone and sandstone base fragments 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, slight biological staining and discoloration remain, which cannot be removed without harsh methods.

#### C. Re-attachment and Repair

1. Re-attach sandstone base fragments using grout and threaded stainless steel rods where necessary.
  - ▶ the contact areas of the fragments were coated with a lime and cement slurry prior to fitting in place.
  - ▶ only slight losses and gaps remained after reattachment and were patched and pointed with custom mixed Type N repair mortar.

#### D. Reset and Level

1. Reset and level repaired sandstone base upon compacted gravel.
2. Reset and plumb marble headstone into slotted sandstone base with a Type O mortar mix.
  - ▶ the joint/gap between headstone and the slot was pointed with Type O mortar

#### E. Site Preparation and Repair

1. Place pea gravel around base