HAFE PKG. PMIS 110188
REPAIR ALLEYS OF HISTORIC BUILDINGS #35&36
(PRESERVATION OF WINDOWS AND DOORS)

HARPERS FERRY NATIONAL HISTORICAL PARK
FY07

HISTORIC STRUCTURES TREATMENT RECORD

HISTORIC PRESERVATION TRAINING CENTER
Department of Interior
National Park Service
4801A Urbana Pike
Frederick, MD 21704
HISTORIC STRUCTURES TREATMENT RECORD

INDEX

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Accounting
## PMIS Completion Report Accounting

<table>
<thead>
<tr>
<th>Account</th>
<th>Amount Obligated</th>
<th>Revised Estimate</th>
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<tbody>
<tr>
<td>3064-2712-MCL</td>
<td>$207,393.64</td>
<td></td>
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</tbody>
</table>

### Component Completion Report for project: 3064-2712-MCL

### Component Account Costs By Budget Object Class (based on AFS3):

<table>
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<tr>
<th>Account</th>
<th>Personal Service Cost</th>
<th>Travel Cost</th>
<th>Contract Work Cost</th>
<th>Contract Number Cost</th>
<th>Supply Cost</th>
<th>Equipment Cost</th>
<th>Other Cost</th>
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## Total Component Account Cost

| Total Component Account Cost | $207,393.64 |
Narrative
Narrative Statement

REPAIR ALLEYS OF HISTORIC BUILDINGS #35&36
(PRESERVATION OF WINDOWS AND DOORS)
HARPERS FERRY NATIONAL HISTORICAL PARK
FY07

Work Order # HAFE PKG. PMIS 110188'

Project Narrative
This report is a statement of work completed by the Historic Preservation Training Center’s preservation crew between April 30th and August 27th 2007. Included as a part of the Project Record of Treatment are actual project costs, weekly reports, correspondence, and project photographs with narratives, material supply lists for the repair and preservation repairs performed at the Alley ways of Buildings 35 & 36 in Harpers Ferry National Historical Park.

Project History
The “Preservation of the Windows and Doors FY07” was the final phase of preservation efforts that Historic Preservation Training Center (HPTC) began in FY 2006.

The Harpers Ferry National Historical Park entered a contract by way of project agreement with Historic Preservation Training Center, National Park Service, to execute Preservation repairs to historic windows, doors, shutters and any adjunct wooden surfaces, along with replacing failing gutter systems and the installation of a bird protection system on the Alley ways of Historic Buildings 35 & 36.

The Preconstruction Meeting was held on Tuesday, March 20, 2007 at the exterior of Buildings 35 & 36. Prior to preservation activities beginning correspondence and dialogue was continued through telephone conversations and cc: mail regarding any concerns or issues for the starting of work.

This report will address all preservation work completed on the windows, doors, shutters and any adjunct wooden surfaces, along with replacing failing gutter systems and the installation of a bird protection system on associated with the Alleys of Historic Buildings 35 &36, thus finalizing and concluding all preservation work under this project agreement.

Description of Project

The HAFE Package 439/ PMIS 110188 covers a diverse group of activities located at three different sites within the Harpers Ferry National Historical Park. The three alleys are defined by Buildings 11A-12A, 33-34, and 35-36 located in Lower Town of Harpers Ferry National Historical Park in Harper’s Ferry, West Virginia. The scope of work defined in Package
439/PMIS 110188 has been divided into two parts, each covered by a separate project agreement. This project agreement, developed by the Wood-crafting Section, covers all woodwork, gutters, and bird netting to be addressed in FY-06. An independent project agreement was developed by the Masonry Section and addresses all scaffolding, and masonry issues to be addressed in FY-06. This project will be completed in two phases. Phase I is outlined in this document and is scheduled to be completed during FY06. Phase II will be completed under a separate agreement and completed in FY07. The work in the alleys located between buildings 11A-12A, 33-34, and 35-36 will be addressed during the two phases of this project. Work associated with alleys 11A-12A and 33-34 will be completed during FY06 while work associated with alley 35-36 will be completed during FY07.

The scope of the current project was developed from the PMIS statement prepared by HAFE Historical Architect Peter Dessauer. The majority of the repairs required can be attributed to several causes, most notably the weather, the environment, no sun exposure, minimal ventilation and wear and tear on the structure. The preservation activities will focus on the preservation of the historic windows, doors, shutters and any adjunct wooden surfaces, along with replacing failing gutter systems and the installation of Bird Protection Screens.

**Clearance**
Section 106 compliance has been covered under the Programmatic Agreement among Harpers Ferry National Historical Park, The Advisory Council on Historic Preservation and the West Virginia State Historic Preservation Office Regarding 1996 Flood / Storm Recovery Efforts. Any other necessary compliance requirements will be the responsibility of the Park.

**Summary of Work**
The following is a summary of work performed by the Historic Preservation Training Center’s preservation team.

Preservation activities performed on the alleyways of buildings 35 & 36 began with the mobilization of tools and equipment. After the site was staged crews immediately began to clean all exterior wooden surfaces with a mild detergent on the basement level within the alley way. Following cleaning procedures the day labor crew began documentation of existing conditions of the basement level windows and door. Our preservation team vigorously completed all repairs on the basement level, in order to accept the delivery and installation of Pole Scaffolding. Due to the major traffic and public concerns that were identified, the HPTC day labor crew coordinated with all local and park authorities to ensure that the storage, staging, erecting and dismantling would not effect the daily operation of the park staff and or it visitors as well as the town residence. The HPTC crew went an extra step to wrap the scaffolding with a shade cloth to reduce visibility of visitors and not impact the scenery of Lower Town due to the length of time the scaffolding would remain in place.

Once the scaffolding was erected and covered the preservation crew immediately began the continuation of preservation treatments.
**Building #35**

- Window sill replacements using Oak to replace in kind: W213, W314, W407

- Sash Rebuild using Spanish cedar due to its rot resistance: W405 upper & lower, W406 upper & lower, W407 upper & lower

- Spanish cedar, West System and Timber Flex for epoxy repairs: Approximately 20 repairs have been completed to the window openings and or sash of building #35.

- Bendheim restoration glass for sash lite replacements: Approximately 5 pieces of reproduction historic glass were used on building #35.

- Shutters were rebuilt and or repaired using Spanish cedar, West System and Timber Flex for epoxy repairs: A total of 6 shutters were rebuilt and 30 were repaired.

- New Cast Iron Clam Shell Shutter dogs have been added to each shutter to lock them in place to prevent movement during inclement weather.

In addition every feature of each individual window opening, sash and shutter has been sanded, primed, and painted upon completing this elevation.

**Building #36**

- Window sill replacements using Oak to replace in kind: W004, W114, W117, W215

- Sash Rebuild using Spanish cedar due to its rot resistance: Approximately 22 repairs have been completed to doors, window openings and sash of building #36.

- Bendheim restoration glass for sash lite replacements: Approximately 8 pieces of reproduction historic glass were used on building #365.

- Shutters were rebuilt and or repaired using Spanish cedar, West System and Timber Flex for epoxy repairs: A total of 12 shutters were rebuilt and 10 were repaired using Spanish cedar and or epoxy materials.

- Shutter dogs have been added to each shutter to lock them in place to prevent movement during inclement weather.

In addition every feature of each individual window opening, sash and shutter has been sanded, primed, and painted upon completing this elevation.
Selected Photographs
Photo 1: Cleaning procedures of basement level sash on Building 36

Photo 2: Deteriorated sill located on the basement level of building 36.
Photo 3: Sill removed due to deterioration and left jamb rot pocket being removed for consolidation.

Photo 4: Deteriorated jamb and freshly primed replacement jamb
Photo 5: Deteriorated sash of building 35

Photo 6: Lead Abatement in progress (saving the historic sash lites).
Photo 7: Sash repair in progress (setting new sash sprigs).

Photo 8: Preserved shutter hung with new clam shell shutter dog attached
Project Agreement
FINAL PROJECT AGREEMENT

HAPE PKG. PMIS 110188
REPAIR ALLEYS OF HISTORIC BUILDINGS #35 & 36
(PRESERVATION OF WINDOWS AND DOORS)
HARPERS FERRY NATIONAL HISTORICAL PARK
FY07

February 8, 2007

RECOMMENDED: [Signature] DATE: 2/12/2007
SUPERINTENDENT, HISTORIC PRESERVATION TRAINING CENTER

APPROVED: [Signature] DATE: 2/13/2007
SUPERINTENDENT, HARPERS FERRY NATIONAL HISTORICAL PARK

ARCHITECT, HARPERS FERRY NATIONAL HISTORICAL PARK

Submitted by:
National Park Service
Historic Preservation Training Center
4801-A Urbana Pike
Frederick, Md.
IN REPLY REFER TO:

D18(HPTC)

February 8, 2007

Memorandum

To: Superintendent, Harpers Ferry National Historic Park

From: Superintendent, Historic Preservation Training Center

Ref: HAFE PKG. PMIS #110188 Repair Alley of Historic Buildings #35 & 36
Preservation of Windows and Doors

Subject: Transmittal of Final Project Agreement

Enclosed is the Final Project Agreement for the referenced project. All comments received from the Park have been incorporated into this document. Upon review, concurrences, and approval of this document, please obtain all necessary signatures on the cover sheet and return to the Historic Preservation Training Center for final distribution.

If we can provide any additional information regarding this document, please do not hesitate to contact either Doug Hicks at 301.663.8206 or Dean Wigfield at 301.698.5784.

H. Thomas McGrath

Enclosure
cc:
Peter Dessaurer, HAFE
Mia Parsons, Archeologist, HAFE
Mike Castagnetto, Chief of Maintenance, HAFE
Richard Trott, B&U Supervisor, HAFE
Michael Alvarez, HAFE
Dave Hammers, NCR

bcc: electronically
HPTC, McGrath (w/enclosure)
HPTC; Hicks (w/enclosure)
HPTC; McGuigan (w/enclosure)
HPTC; Burkhard (w/enclosure)
HPTC; Wigfield- Project file (w/enclosure)
I. DESCRIPTION OF THE PROJECT

The HAFE Package 439/PMIS 110188 covers a diverse group of activities located at three different sites within the Harpers Ferry National Historical Park. The three alleys are defined by Buildings 11A-12A, 33-34, and 35-36 located in Lower Town of Harpers Ferry National Historical Park in Harper’s Ferry, West Virginia. The scope of work defined in Package 439/PMIS 110188 has been divided into two parts, each covered by a separate project agreement. This project agreement, developed by the Wood-crafting Section, covers all woodwork, gutters, and bird netting to be addressed in FY-06. An independent project agreement was developed by the Masonry Section and addresses all scaffolding, and masonry issues to be addressed in FY-06. This project will be completed in two phases. Phase I is outlined in this document and is scheduled to be completed during FY06. Phase II will be completed under a separate agreement and completed in FY07. The work in the alleys located between buildings 11A-12A, 33-34, and 35-36 will be addressed during the two phases of this project. Work associated with alleys 11A-12A and 33-34 will be completed during FY06 while work associated with alley 35-36 will be completed during FY07.

The scope of the current project was developed from the PMIS statement prepared by HAFE Historical Architect Peter Dessauer. The majority of the repairs required can be attributed to several causes, most notably the weather, the environment, no sun exposure, minimal ventilation and wear and tear on the structure. The preservation activities will focus on the preservation of the historic windows, doors, shutters and any adjunct wooden surfaces, along with replacing failing gutter systems and the installation of Bird Protection Screens.

II. SCOPE OF THE PROJECT

The following tasks will be completed during the course of this project. Personnel from the Historic Preservation Training Center will serve as the preservation specialists to complete all tasks associated with the project.

TASK: #1 – Repair alley between Building 11A-12A

1a – Site mobilization and protection – The masonry section of HPTC will erect scaffolding and staging. Visitor access to the area will be restricted during the project. HPTC will set up barricades as necessary to prevent visitors from entering the work site. Window mounted air conditioners (AC) will be removed for window ledges for the duration of the project. Scaffolding will be removed by HPTC at the end of the project. Egress will be maintained under scaffold if it obstructs the primary entrance/exit route. Other site issues and logistics will be addressed at the Preconstruction Meeting.
1b – Removal and clean-up of pigeon feces, algae and fungi on wooden surfaces -
Build-up of feces, algae and fungi on all wooden surfaces most notably the window sills and the horizontal members of the sash will be misted with a ten to one solution of water to bleach. Waste material will be double bagged and disposed of as ordinary waste.

1c – Repair or replace windows, shutters and wooden surfaces – Within the alley there are 8 historic windows and 14 historic shutters. Of the 8 windows, 3 are in need of new upper and lower sash. The other 5 windows are in various states of disrepair and need a mixture of component repairs and Dutchman. The corresponding jambs, sills, parting bead, exterior stop and brick mold are also in various states of disrepair and a 1/3 of them will need to be replaced. Of the 14 shutters, 6 are in need of total replacement. The other 8 will need a combination of repairs. The alley also includes 100 square feet of siding that is in good condition and will need minimal repair. All carpentry repairs will be completed with mahogany. If necessary, sash, shutters, and other window components will be taken back to HPTC shop to properly execute repairs. All new joinery will mimic historic joinery and level of craftsmanship. All replacement material will be pattern grade mahogany.

All wooden elements will be wet scraped to a paintable surface. The cost estimate pertaining to this task doesn’t allow for OSHA Lead Abatement protocols. New and old components will be sanded, primed and painted with two coats of exterior paint. The windows will not be made operable and the upper sash will continue to be fixed.

1d – Repair or replace gutters and downspouts – Inspect gutters and downspouts repair or replace were necessary. Copper gutters and downspouts will be installed to match existing. All elements of the roof drainage system will be primed and painted.

1e – Installation of Bird Protection Screens – Install pigeon net screens in the alley to cover specifically chosen walls and windows.

TASK: #2 – Repair alley between Buildings 33-34

2a – Site mobilization and protection – The masonry section of HPTC will erect scaffolding and staging. Visitor access to the area will be restricted during the project. HPTC will set up barricades as necessary to prevent visitors from entering the work site. Window mounted air conditioners (AC) will be removed for window ledges for the duration of the project. Scaffolding will be removed by HPTC at the end of the project. Egress will be maintained under scaffold if it obstructs the primary entrance/exit route. Other site issues and logistics will be addressed at the Preconstruction Meeting.

2b – Removal and clean-up of pigeon fecal matter, algae and fungi on wooden surfaces – Build-up of feces, algae and fungi on all wooden surfaces most notably the window sills and the horizontal members of the sash will be mist down with a ten to one
solution of water to bleach. Waste material will be double bagged and disposed of as ordinary waste.

2c – Repair or replace windows, shutters and wooden surfaces – Within the alley there are 21 historic windows, 3 historic doors and 40 historic shutters. Half of the windows are in various states of disrepair and need a mixture of component repairs and Dutchman. The remaining windows are in fair condition and only need minimal repairs. The corresponding jambs, sills, parting bead, exterior stop and brick mold are also in various states of disrepair and a 1/4 of them will need to be replaced. The doors are in fair condition with exception to the thresholds which need to be replaced. Of the 40 shutters, 10 are in need of total replacement. The other 30 will need a combination of repairs. All carpentry repairs will be completed with mahogany. If necessary sash, shutter or other window components will be taken back to HPTC shop to properly execute repairs. All new joinery will mimic historic joinery and level of craftsmanship. All replacement material will be pattern grade mahogany.

All wooden elements will be wet-scraped to a paintable surface. The cost estimate pertaining to this task doesn’t allow for OSHA Lead Abatement protocols. New and old components will be sanded, primed and painted with two coats of exterior paint. The windows will not be made operable and the upper sash will continue to be fixed.

2d - Installation of Bird Protection Screens – Install pigeon net screens in the alley to cover specifically chosen walls and windows.

NOTE: All preservation work performed by the Historic Preservation Training Center will comply with the Secretary of the Interior’s Standards for the Treatment of Historic Properties.

III. STRUCTURE DESCRIPTION

The alley between historic building #11A (William Anderson) and historic building #12A (Ann Stephenson) has no sun exposure, minimal ventilation, and no outlet. The buildings that surround the alley are of brick construction, two to three stories high and have multiple window openings containing wooden double hung sash. The surface of the alley is comprised of stone pavement creating little to no drainage. The combination of these factors above has led to the growth of algae, fungi and the build up of pigeon feces. This has caused the historic fabric of the building to deteriorate at a rapid rate.

The alley between historic building #35 (Dry Goods Store) and historic building #36 (Master Armorer’s House) has little to no sun exposure and minimal ventilation. The buildings surrounding the alley are of brick construction, three to four stories high and have multiple window openings containing wooded double hung sash. The surface of the alley is dirt and has no drainage system in place. The alley itself is very long, narrow and problematic to maintain. This has cause the historic fabric of the building to deteriorate at a higher rate.
The alley between historic building #33 (Doran Store) and historic building #34 (Armorer’s House) has some sun exposure and fair ventilation. The buildings surrounding the alley are of brick construction, three to four stories high and have multiple window openings containing wooden double hung sash. The surface of the alley is comprised of stone pavement and has adequate drainage. The historic fabric in this alley is in fair condition.

IV. DATA COLLECTION

The collection of data comprises of the report from Captain David P. Bleicher of the US Public Health Service, and the PMIS 110188 document.

V. COMPLIANCE

Section 106 clearance is covered under the Programmatic Agreement among Harpers Ferry National Historical Park, The Advisory Council on Historic Preservation and the West Virginia State Historic Preservation Office Regarding 1996 Flood / Storm Recovery Efforts. Any other necessary compliance requirements will be the responsibility of the Park.

VI. PROJECT COORDINATION

The successful execution of this project will depend upon the timely completion of any and all necessary actions as outlined by each of the following parties to this Project Agreement:

HPTC: Review existing documentation and reports and prepare a Project Agreement and cost estimate describing project work.

Coordinate phasing of the work performed by the HPTC's preservation team.

Conduct preconstruction, final inspection, and other such on-site, project-related meetings as required.

Provide project supervision for all work performed by the HPTC’s preservation team.

Provide crafts people, tools, and materials to perform all construction activity outlined in Section VII, Products.

Provide weekly reports on project progress and activities to Park.

Provide proper disposal facilities for and periodic collection of all construction debris and lead waste associated with this project.
Maintain a record of treatment for all documentation on all phases of the subject work. Prepare and distribute a record of treatment within six months of the date of the final inspection.

Provide for visitor access and protection while the project is ongoing.

Maintain work and staging area according to OHSA Regulations and Guidelines.

Prepare and provide to the Park a mobilization plan, a detailed schedule, and a safety plan.

HAFE: Consistent with the provisions of this Project Agreement, provide access to the project site for the day-labor crew and any related contract or supply or service contract associated with the project work or as stipulated at the preconstruction conference.

Provide three parking spaces in the parking lot adjacent to the building.

Provide any and all necessary clearances and/or permits for the project including federal, state, and local permits required. Prepare all compliance documents as required by the Historic Preservation Act of 1966, as amended. Provide a copy to the HPTC for inclusion in the Record of Treatment.

Review, comment, and approve/reject all project submittals in a timely manner.

Provide public toilet facilities for the duration of the project.

Provide access to a clean water source and electrical service for project related purposes.

Designate a single administrative contact. (refer to the Project Team section)

The HPTC and HAFE will determine matters regarding site-related issues (access, closures, signing, etc.). The HPTC's project leader may vary from time-to-time, but at all times a designated person will retain on-site authority and serve as the immediate HPTC project contact. HPTC project leaders do not have approval authority on matters concerning time, money, scope of work, or design changes. Matters regarding project objectives and/or design-related issues will be determined by approved compliance and design documents; any unresolved issues or changes will be handled among HAFE and the HPTC's supervisory staff. Matters regarding logistics and/or techniques of project execution will be determined by the HPTC. Further refinement of these roles and responsibilities will be discussed at the preconstruction meeting.
VII. SAFETY

Worker and visitor safety is a primary concern within the NPS. Safety awareness and compliance shall be both a team and individual concern, with all parties striving to attain a safer work environment.

GENERAL
A project-specific Safety Plan will be developed for this HAFE project and made available to the client upon request. Each member of the project team will acknowledge their familiarity with the Plan by affixing their signature to the "Crew Sign-Off Sheet." The Plan designates the "Competent Person" for all OSHA regulated activities.

This HAFE project is a hard hat area in compliance with OSHA regulations. All persons entering the designated work area will wear an approved hard hat at all times. The HPTC section chiefs are the only individuals who may grant exception to this HPTC policy. The HPTC Project Leader is responsible for ensuring that all activities are compliant with all safety-related issues.

Project leaders shall conduct weekly “tailgate safety meetings” with workers assigned to the project and file OSHA required records in the project file.

Project leaders shall ensure that all work activities are consistent with applicable health and safety regulations and the HPTC Safety Program.

ACCIDENT FORMS
On all HPTC projects, HPTC is responsible for reporting and investigating all accidents in accordance with HPTC’s Safety Program (available upon request), laws and regulations.

Occupational Safety and Health Act - COMPLIANCE
All HPTC project work shall be conducted in accordance with OSHA regulations – 29 CFR Part 1926.

VIII. PRODUCTS

Products to be furnished by the agreements within this Project Agreement from the HPTC to the HAFE are:

1. Completion of preservation tasks as detailed in Section II of this Project Agreement.

2. The HPTC shall prepare a Record of Treatment for this project in accordance with the NPS Director’s Order (DO) #28, Cultural Resource Management. The Record of Treatment includes account data, photographs, sketches, narrative and correspondence outlining the course of work, conditions encountered, and materials used.
The HPTC shall provide limited distribution of the Historic Structure Record of Treatment. Broad distributions of the Historic Structure Record of Treatment as outlined in Appendix D, DO #28 shall be the responsibility of the park. The HPTC shall provide the park with 2 Historic Structure Record of Treatment prepared in a CD Rom format and 4 hardcopies. Included in this document will be select scanned photographic images. All original photographs and negatives will be packaged separately in a loose leaf binder and provided to the Park. The HPTC shall retain an electronic copy with duplicates of all photographs for the HPTC’s library. The HPTC shall distribute a CD Rom copy of the Historic Structure Record of Treatment with electronically scanned photographic images to the HPTC Deputy Superintendent, the designated Project Leader, the Regional Office, the Harpers Ferry Center Library and the DSC Technical Information Center.

IX. ESTIMATED SCHEDULE

Draft Project Agreement: December 21, 2005
Final Project Agreement: January 11, 2006
Project Start Date: June 1, 2006
Project Completion Date: September 30, 2006
Distribute Project Record: March 30, 2007

X. COST ESTIMATE

TASK: #1 Repair alley between Buildings 11A-12A

1a – Site mobilization and protection -

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<tbody>
<tr>
<td>Craftsperson 10 hrs @ 34.72</td>
<td>347</td>
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</table>

| MATERIALS | 0 |

| SUBTOTAL | 347 |

1b – Removal and clean-up of pigeon feces, algae and fungi on wooded surfaces –

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<th>LABOR</th>
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<tbody>
<tr>
<td>Craftsperson 40 hrs @ 34.72</td>
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| MATERIALS | 0 |

<p>| SUBTOTAL | 1,388 |</p>
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<td>Craftsperson 796 hrs @ 34.72</td>
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<td>MATERIALS</td>
<td>3,166</td>
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<td>1d - Repair or replace gutters and downspouts –</td>
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<td>1e – Installation of bird protection screens –</td>
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**TASK: #2 Repair alley between Buildings 33-34**

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<td>MATERIALS</td>
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</tr>
<tr>
<td>SUBTOTAL</td>
<td></td>
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</tbody>
</table>
2b – Removal and clean-up of pigeon feces, algae and fungi on wooded surfaces –

LABOR
Craftsperson 40 hrs @ 34.72 1,388

MATERIALS 0

SUBTOTAL 1,388

2c – Repair or replace windows, shutters and wooden surfaces –

LABOR
Craftsperson 1265 hrs @ 34.72 43,920

MATERIALS
Lumber, shaper knives, paint, primer 3,712

SUBTOTAL 47,632

2d – Installation of bird protection screens –

LABOR
Lump sum 6,000

MATERIALS 0

SUBTOTAL 6,000

TASK: # 2 SUBTOTAL 55,367

ITEM #1: Project Related Costs

Supervision 2,000
Tool Maintenance 2,059
Vehicle Costs 5,154

ITEM #1 SUBTOTAL 9,213
PROJECT COST SUMMARY

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NOTE: HPTC's salaries are calculated on a pay period basis. The number of pay periods is based upon an estimate of the total amount of hours required for each team member to complete the required project tasks. The hourly rate for each occupation is determined by combining the direct hourly rate plus benefits with a prorated amount for the indirect costs of annual and sick leave, holidays, and training time.

XI. PROJECT TEAM

HPTC: Chris McGuigan, Project Supervisor
      Marcus Mack, Project Leader

HAFE: Peter Dessauer, Park Architect

XII. TRAINING

It is the objective of the HPTC to expand our programs by providing opportunities for all NPS employees to receive training, which increases their appropriate levels of sensitivity and responsibility in the recognition and implementation of historic preservation of cultural resources. The focus of HPTC's training is on work-based learning and skill improvement.

Various aspects of this project offer different learning opportunities for those involved in its execution. HPTC shall make every effort to maximize the training potential of the project described in this Project Agreement by scheduling HPTC's staff, program participants, and Park personnel to appropriate project duties.

-END-
Compliance
### Project Title:
Repair Alleys of Historic Buildings, HAFE PMIS #110188, WV-02, Package 439.

### Proposed Start Date:
June, 2006

### Target end Date:
September 30, 2007

### Location:
Historic Lower Town, HAFE Park/NPS – Buildings 11A/12A; 35/36, and 33/34. Harpers Ferry, West Virginia.

### Project Leader:
Peter Dessauer (HAFE Architect) and Michael Castagnetto (HAFE Facilities Manager).

### Phone:
304-535-6040 and 304-535-6110

### Today's Date:
Wednesday, January 18, 2006.

---

**Answer the following questions for all projects to take place in the park, whether new or routine projects.**

<table>
<thead>
<tr>
<th>Will the project:</th>
<th>Y</th>
<th>N</th>
<th>U</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Y</strong> Involves any GROUND or VEGETATION DISTURBANCE? (I.e. digging, cutting)</td>
<td><strong>Y</strong> Involve any construction, rehab or repair? (Trail, building, sidewalk, etc)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>N</strong> Affect WETLANDS or FLOODPLAIN areas?</td>
<td><strong>Y</strong> Affect a HISTORIC building, landscape, structure or object?</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>N</strong> Occur within 10 feet of a water source or have the potential for soil or project material to be washed into the water source? (i.e. is near a river, stream, spring etc)</td>
<td><strong>Y</strong> Affect public health and safety?</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>N</strong> Require use of hazardous materials? (I.e. pesticides, herbicides, fuels)</td>
<td><strong>N</strong> Affect the needs of visitors with disabilities?</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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If you answered “Y” or “U” to any of the questions in Section A above: Complete sections B-C and forward to NEPA / 106 Screening Form (NSF) Harpers Ferry National Historical Park.

If you answered “N” to all of the questions in Section A. Proceed to...
Section D, Supervisor Approval

B. Project Management: (Check one)
   - NPS Contracting out
   - NPS In-house/Day labor
   - Other ____________________________

C. Project Description: Complete the one-page description form.

D. Supervisor Section

   I concur  Do not concur – With the project leader that he/she has completed this form properly and the project is ready to begin the review process:

   Supervisors Signature: ____________________________  Date: ____________

   Please make a copy or maintain a computer backup of this form and the one page project description and any other attachments. Please forward to the Compliance Coordinator. Please allow one full week from the day the project request is received by the Compliance Coordinator for the project to be reviewed and compliance determined. Note, the compliance process itself may take 2 weeks to over a year (or longer) depending on the project.

E. NEPA (To be completed by the Natural Resources Staff)
   Will the project involve: (please mark all that apply)

   - Categorical Exclusion
   - T&E Species
   - Air or Water Quality
   - IPM
   - Hazardous Materials

   Not a Compliance Issue
   Wetlands/Floodplain (need 404 permit)
   Fisheries (need 401 permit)
   Has Potential to be controversial?

   Approved by: ____________________________  Date: ____________

F. NHPA: (To be completed by 106 Coordinator)
   Will the project involve: (please mark all that apply)

   - Require Assessment of Effect form (XXX)
   - SHPO concurrence needed
   - Has Potential to be controversial?
   - Not a Compliance Issue
   - Categorical Exclusion
   - ACHP concurrence needed

   Approved by: ____________________________  Date: ____________
### G. Accessibility (To be completed by Accessibility Coordinator)

- [ ] Meet UFAS standards?
- [ ] ADA standards
- [ ] Not Applicable

If applicable, comment on what needs to be done and timeline for any paperwork.

Approved by: ___________________________  Date: ___________________________

Complete and return to the Compliance Coordinator

### H. Health & Safety (To be completed by Safety Officer)

- [ ] Does project need Job Hazard Analysis?
- [ ] Yes  [ ] No  [ ] Not Applicable

If applicable, comment on what needs to be done and timeline for any paperwork.

Approved by: ___________________________  Date: ___________________________

Complete and return to the Compliance Coordinator

To be completed by the Compliance Coordinator

### I. Compliance Required (Check one or more if applicable.):

- [ ] (No Compliance Required)
- [ ] XXX
- [ ] CX
- [ ] EA
- [ ] EIS
- [ ] OTHER  [ ] Covered under previous CX, EA or XXX

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**Description**

The Park has three alleys in Lower Town between six separate historic buildings (11A/12A, 35/36, and 33/34) which are in dire need of algae and bird fecal matter cleanup, fabric repairs, and bird protection. Specifically, the scope of work includes, but is not limited to: Staging; Scaffolding; Removal and cleanup of pigeon fecal matter, algae, fungi, and mildew layers; Repairing the building exteriors - i.e. masonry cleaning and repointing, gutters and downspouts, pavement drainage, windows, doors, shutters, and hardware; Repaint of wood surfaces; and installation of Bird Protection Screens. These historic cultural resources are part of the HAFE backlog of deferred maintenance. The scope of work can be performed by the Historic Preservation Training Center (HPTC). The provision and installation of the Bird Protection Screens might be subcontracted to an independent licensed contractor. HAFE Park staff can take care of 106 Compliance.

**Justifications**

The three alleys in Lower Town between historic buildings #11A William Anderson (1838)/#12A Ann Stephenson (1840); between buildings #35 Dry Goods Store (1812) / #36 Master Armorer's House (1859); and between #33 Phoebe Shaw (1883)/#34 Old Master Armorer's House (1827) constitute...
two and three levels high, long and narrow, with wood double hung sash fenestration, basement light wells and/or windows, no sun exposure, minimum ventilation, and a stone pavement offering minimum or no slope to drain. As a consequence these alleys have algae and fabric deterioration problems; masonry joints missing mortar; standing pools of water; pigeon fecal matter stains and fecal piles; peeling paint and possible exposed lead base paint layers; rotting wood window, door, and shutter elements; peeling paint on metal and wood substrates; light well with no drain or rain cover; gutters and downspouts needing replacement, repairs, and repaint; minor vegetation intrusion; etc. Lack of adequate drainage on the pavements present slipping hazards. The presence of algae, fungi, mildews and bird fecal matter creates visually unpleasant and unclean environments. These alleys are close to being unhealthy environments. This work needs to be done in order to establish a safe environment for employees and visitors and to safeguard the quality and condition of the historic buildings while discouraging further bird fecal deposits with proper protection.

**Measurable Results**

The completion of this project will remove the existing unsightly and unclean conditions and restore the alley’s historic features, thus leaving a safe environment for human presence, accomplishing a deferred maintenance priority, and sustaining the proper historic scene - all of which complies with the HAFE Park/NPS mandate and responsibilities.

Further Description: The work will be make up for deferred maintenance and be mostly replacement in kind. There will be efforts made to improve brick pavement drainage and to protect the basement window well in the 11A/12A alley with a new cover. To prevent the continued accumulation of hazardous bird guano, pigeon screen installations will be hung to discourage collections of fecal matter on the window sills, shutters, panes, and alley pavements. The project will be done in two phases during 2006 and 2007.
Correspondence
IN REPLY REFER TO:

March 20, 2007

Memorandum

To: Superintendent, Historic Preservation Training Center

From: Project Leader, Historic Preservation Training Center

Ref: Repair Alleys of Historic Buildings 35-36
     (Preservation of the Windows and Doors) Phase II

Harpers Ferry National Historical Park FY-06

Subject: Pre-Construction Meeting Minutes

The subject meeting was held as scheduled on Tuesday, March 20, 2007 at 9:30 a.m. at the exterior of Building 35-36. The following persons were in attendance.

Peter F. Dessauer, Historic Architect, HAFE
M. Castagenetto, HAFE
Dean Wigfield, Exhibits Specialist, Project Supervisor, HPTC
Marcus Mack, Exhibits Specialist, HPTC
Chris Robinson, Supervisory Exhibits Specialist Masonry, HPTC

The meeting began with introductions, and was followed by a review of the Project Agreement and the scope of work. Administrative concerns and logistical issues were also addressed. These items included the following:

Scope of Work
HAFE representatives were satisfied with the proposed scope of work listed in the Final Project Agreement.
Project Contact People:
Peter F. Dessauer, Historic Architect, HAFE
M. Castagenetto, HAFE
Richard Trott, B&U Supervisor, HAFE
Marcus Mack, HPTC
Dean Wigfield, HPTC

Project Work Hours
Normal duty hours for this project will be Monday through Thursday from 06:00 a.m. to 04:30 p.m.

Safety
Park representatives were briefed on HPTC safety policies and procedures. In case of an emergency, HPTC field personnel will contact 911 and travel to the local hospital, Jefferson Urgent Care.

Project Site Use
A discussion was held to insure that use of the on-site facilities complied with park regulations and policies. The HPTC was made aware of several site-specific concerns:

- HPTC will notify HAFE of any new development pertaining to the scaffolding set up following a site walk thru with the scaffolding contractor.
- HPTC will notify HAFE Site Manager one week prior to the arrival of the scaffolding contractor. Once notified HAFE will be responsible for contacting park and local authorities prior to the arrival of the scaffolding.
- HPTC will provide flagging during the off loading and loading of the scaffolding, along with providing OSHA certified COTR’s to inspect the scaffolding during erection.
- HAFE has agreed to allow HPTC staff to enclose a small area with green landscape fencing on the south lawn of building 36 for storage throughout the duration of the project. This will also stop all access to the southwest door of building #36 for the duration of the project.

All loading and unloading of scaffolding will take place on Shenandoah Street in front of buildings 35-36.

Park Rules and Regulations
The HPTC was briefed on a variety of park rules and regulations. These primarily concerned resource management issues but also covered use of government owned equipment and parking. The HPTC has agreed to park in the three provided spaces located within Fort Apache.
Distribution of Weekly Reports and Correspondence

All correspondence will be distributed to those individuals identified in the Project Agreement as key individuals. All correspondence will be sent electronically.

Site Security

The park has requested that the site be fully secured during evenings and lieu days when the crew is not present. The HPTC has agreed to secure the area using the approved green landscaping fencing. Proper signage will be posted throughout the job site warning the public of any potential hazards.

Project Photographic Documentation

The project will be photographically documented using color, black and white, and slide film.

Start Date

Preservation activities are tentatively scheduled to begin on May 1, 2007. If any work needs to begin prior to the mentioned date an Email will be sent out to all contact persons.

If there are any questions or concerns regarding this meeting, please contact Dean Wigfield or Marcus Mack at 301-698-5784.

Marcus Mack
Project Leader

cc:
M. Castagenetto, HAFE
Dennis Frye, HAFE
Peter F. Dessauer, Historic Architect, HAFE
Richard Trott, B&U Supervisor, HAFE

bcc: (All Electronic)
Hicks, HPTC
McGrath, HPTC
C. McGuigan, HPTC
D. Wigfield, HPTC
Mack, HPTC
Project file, HPTC
October 11, 2006

Memorandum

To: Superintendent, Historic Preservation Training Center

From: Project Leader, Historic Preservation Training Center

Ref: Repair Alleys of Historic Buildings 11A-12A & 33-34

Bird Netting and Anti-Roost System

Harpers Ferry National Historical Park FY-06

Subject: Pre-Construction Meeting Minutes

The subject meeting was held as scheduled on Tuesday, October 10, 2006 at 9:00 a.m. at the Alley ways of buildings 11A-12A & 33-34. The following persons were in attendance.

Peter F. Dessauer, Historic Architect, HAFE
Dennis E. Frye, Chief of Interpretation, Education, and, Cultural Resource Management, HAFE
Sheila E. Rushlow, Contracting Officer, HPTC
Dean Wigfield, Exhibits Specialist, Project Supervisor, HPTC
Marcus Mack, Exhibits Specialist, HPTC
Chris LaPlaca, Bird Solutions International

The meeting began with introductions, and was followed by a review and signing of the Pre-Construction Document **Contract#P2680060188**. The pre-construction document covered the following subjects:

A. Contracting Officer and COTR Responsibilities
B. Correspondence Procedures
C. Subcontractors
D. Labor Standards
E. Payroll Reports
F. Delays and Time Extensions
G. Contract Modifications
H. Codes
I. Safety/Accident Prevention
J. Rules and Regulation
K. Clean-Up
L. Parking
M. Utilities
N. Documents Required Under This Contract
O. Work Schedule
P. Storage
Q. Payments To The Contractor

Following the review pre-construction document all meeting members began to walk thru the sites, to review the work that has been completed to date and address any would be concerns that could pose an issue prior to the installation of the Bird Netting and Anti-Roosting System.

The park was pleased with the current condition of the shutters and windows, and didn’t have any objections to initiating the installation of the 2 approved systems.

**Project Contact People:**

Sheila Rushlow, HPTC
Marcus Mack, HPTC

If there are any questions or concerns regarding this meeting, please contact Marcus Mack at 443-801-1407 or 301-698-5784.

Marcus Mack
Project Leader

cc:
M. Castagenetto, HAFE
Dennis Frye, HAFE
Peter F. Dessauer, Historic Architect, HAFE
Richard Trott, B&U Supervisor, HAFE
Dean Wigfield, Exhibits Specialist, Project Supervisor, HPTC
Marcus Mack, Exhibits Specialist, HPTC
Moss Rudley, Exhibits Specialist, HPTC
IN REPLY REFER TO:

November 8, 2006

Memorandum

To: Superintendent, Historic Preservation Training Center

From: Exhibits Specialist, Historic Preservation Training Center

Through: Wood-crafting Section Chief, Historic Preservation Training Center

Ref: Repair Alleys of Historic Buildings 11A-12A & 33-34
(Preservation of the Windows and Doors) Phase I
Harpers Ferry National Historical Park FY-06

Subject: Final Inspection Meeting Minutes

The subject meeting was held at the project site beginning at 10:00 a.m. on November 8, 2006. The meeting convened at the main house with a review of the task directive and concluded with an inspection of the site. Listed below are the names of those in attendance:

All work was inspected and accepted, at the time of the inspection. Several elements still needed completion, below is a list of the items and an approximate time of completion:

- Installation of sump pump in cellar, date of completion tentatively scheduled for May 6, 2006.
- Installation of vapor barrier and the mitigation of asbestos in the crawlspace area of the wing, date of completion tentatively scheduled for May 6, 2006.

In addition, there were also several punch list items noted during the inspection, they are listed below:

- Installation of cast iron boots, this task will be completed after all masonry work is
conducted.

- Installation of removable cleanouts, this task will be completed during final grading of the site. A decision of a decorative covering is being made by Howard County Parks.
- Re-installation of Granite paver stones, this task will be completed after a decision is made on the reconstruction of the back porch of the south main elevation.

If I can provide any additional information regarding this document, please do not hesitate to contact me at 301.698.5784 ext 239.

Marcus Mack
Weekly Reports
PARK: Harpers Ferry National Historical Park, Harpers Ferry, WV

PROJECT: Repair Alleys of Historic Buildings #35-36 (Preservation of Windows and Doors) Phase II HAFE Package 439/PMIS 11018


GENERAL

This is the first Weekly Field Report for the project “Preservation of Windows and Doors in the Alleys of Historic Buildings #35-36”. Field work began on April 30th with mobilization and staging of tools and equipment in the designated area provided by HAFE.

All HAFE staff who occupy the offices in Buildings 35-36 were informed that HPTC would be addressing all windows associated within the alley way. The site was secured with fencing and the proper safety signage to inform the public of potential hazards.

On Monday May 7, 2007, the HPTC wood crafting section received delivery of scaffolding from the awarded contractor. This scaffolding has been erected, secured and covered by licensed erectors. All scaffolding will remain in place until or before August 27th 2007. The scaffolding will be inspected daily by a competent individual and or the COTR.

WORK PERFORMED THIS WEEK

Preservation activities opened with the removal of shutters on first floor of building #36. Once the shutters were removed the preservation crew immediately began to address the windows and doors of the basement level.

Window and door treatments began with the washing of each feature with a mild solution containing bleach and water. After the each feature has been washed it was then rinsed and probed for rot and or deterioration.

Following the examining of the basement level openings, documentation of the existing damage was noted as follows:

- Window opening #004 displayed major sill deterioration; a Dutchman repair has been applied thus removing all failed material.
• Door opening #002 displayed no serious failures; this door was scrapped, filled, primed with an oil base primer and painted with 2 coats of latex paint.
• Window opening #003 displayed no serious failures; the sill was planed down to show a positive water run off, next this window was scrapped, filled, primed with an oil base primer and painted with 2 coats of latex paint.
• Window opening #002 displayed no serious failures; the sill was planed down to show a positive water run off, next rot pockets located on the left and right jamb were removed, consolidated and filled with an epoxy filler, this window was then scrapped, filled, primed with an oil base primer and painted with 2 coats of latex paint.
• Door opening #001 displayed several serious failures; these failures were found on the lower 2 to 10 inches of the right and left door jamb, once the rot pockets were removed the crew was able to consolidated and filled with an epoxy filler, this door was then scrapped, filled, primed with an oil base primer and painted with 2 coats of latex paint.

Preservation activities on building#35 focused on the removal of several deteriorated sash located on the 4th floor of the building. Three of the four windows units to be addressed on this floor are in a very serious state of disrepair. All four of the sills have been cleared of deteriorated material and have been consolidated and filled with epoxy. The header jamb of window opening #407 displayed serious failures, the crew was able to remove the deteriorated material, consolidate and fill using epoxy filler.

**NOTE**

All Dutchman repairs will be made using mahogany.
All epoxy repairs will be made using one of the following products: Minwax, The West System, Timber Flex

**PROJECTED WORK FOR THE UPCOMING WEEK**

The preservation day labor crew will begin to document the deterioration and failures found on the 3 sets of sash removed from the 4th floor of building#35 to determine the best treatment. Other work will focus on the removal of the remaining shutters including tagging for repairs and or replacement.

**VISITORS TO THE SITE**

Richard Trott, Maintenance Supervisor, HAFE

**SAFETY**

The HPTC Safety Plan was reviewed and all potential job hazards discussed.
WEATHER

Sunny with highs in the Upper 70’s to low 80’s.

PERSONNEL ASSIGNED TO THE PROJECT

1 Maintenance Worker
1 Exhibits Specialist
1 Exhibits Specialist Supervisor

RECAP

Start Date: April 30, 2007
Completion Date: August 27, 2007
Percentage Completed: 20%
Starting Balance: $197,698.00

Marcus Mack
Project Leader

cc: (electronically)
Don Campbell, Superintendent, HAFE
Michael Castagnetto, Facility Manager, HAFE
Peter Dessauer, Architect, HAFE
Richard Trott, Maintenance Supervisor, HAFE
Dennis Frye, Chief CRM/Interpretation, HAFE
Jennifer Flynn, Chief Ranger, HAFE
GENERAL

Preservation activities for this week focused on several different tasks associated with the project. These tasks involved photo documentation of the existing sash removed them from window openings 407-405, also detailed hand sketches of the sash and its deteriorated features. After thoroughly reviewing the three set of sashes it has been determined that the lower sash of each pair will be totally rebuilt using a mahogany species of wood.

Other tasks involved cleaning, tagging and documenting all shutters located with in the alley way of buildings 35-36. Once completed the crew was able to determine how many shutters of the 35 pair are repairable or are in need of being fabricated. After inspecting the cleaned shutters, it was documented that 15 single shutters will be fabricated using Spanish Cedar.

The tasks mentioned above were completed @ the Jenkins wood-crafting facilities all other preservation tasks mentioned in this report have been executed on site in Harpers Ferry.

WORK PERFORMED THIS WEEK

On site activities opened with the continuation of preservation efforts focusing on the four window openings on the forth floor of building #35.

- Window opening#407 was sanded, primed and painted with coats of latex paint. The jamb and sill of this opening are now completed awaiting the completion of the sash repairs and fabrication.
- The jamb and sill of window opening #406 has been prepped, primed and painted. There were no significant repairs done to the sill or jamb. This opening will be completed following the completion of the sash repairs and fabrication.
- Window opening#405 displayed several small rot pockets on the sill and on the
lower 2inches of the right and left jamb. The jamb, sill and the rot pockets were consolidated, filled, prepped, primed and painted. This opening will be completed following the completion of the sash repairs and fabrication.

- Window unit and opening #404 is in good condition the sash is not in need of any repair. The sill and box jamb exhibit minimal deterioration, the team was able to consolidate, fill, prep, prime and apply two coats of latex paint to the sash and its jamb and sill thus completing all preservation activities to this opening.

**NOTE**

All Dutchman repairs will be made using mahogany.
All epoxy repairs will be made using one of the following products: Minwax, The West System, Timber Flex
All primers used are oil base.
All paints used are latex.

**PROJECTED WORK FOR THE UPCOMING WEEK**

The preservation day labor crew will continue to address window units and openings on the two buildings. The preservation team will also begin to prep the removed sash for repairs and or replacement.

**VISITORS TO THE SITE**

Richard Trott, Maintenance Supervisor, HAFE

**SAFETY**

The HPTC Safety Plan was reviewed and all potential job hazards discussed.

**WEATHER**

Sunny with highs in the Upper 70’s to low 80’s.

**PERSONNEL ASSIGNED TO THE PROJECT**

1 Maintenance Worker
1 Exhibits Specialist
1 Exhibits Specialist Supervisor
RECAP

Start Date: April 30, 2007
Completion Date: August 27, 2007
Percentage Completed: 25%
Starting Balance: $197,698.00

Marcus Mack
Project Leader

c: (electronically)
Don Campbell, Superintendent, HAFE
Michael Castagnetto, Facility Manager, HAFE
Peter Dessauer, Architect, HAFE
Richard Trott, Maintenance Supervisor, HAFE
Dennis Frye, Chief CRM/Interpretation, HAFE
Jennifer Flynn, Chief Ranger, HAFE
PARK: Harpers Ferry National Historical Park, Harpers Ferry, WV

PROJECT: Repair Alleys of Historic Buildings #35-36 (Preservation of Windows and Doors) Phase II HAFE Package 439/PMIS 11018

DATE: June 25, 2007 WEEK ENDING: June 7, 2007

GENERAL

During the week of the May 28th no on site preservation activities took place due the observance of Memorial Day. This report is a combined weekly of several weeks. On May 5th 2007 @ 2pm a pre-proposal conference for potential vendors to review the project site pertaining to the Bird Netting and Anti Roosting Systems contract was held in lower town in front of The Master Armorer’s House.

The preservation team has begun to address the various states of disrepair that the shutters are in. Other activities focused on the continuation of preservation treatments to the window openings of bldgs.35&36.

WORK PERFORMED THIS WEEK

On site activities opened with the continuation of preservation efforts focusing on the eight window openings on the third floor of building #35.

- Window opening #307 - The jamb and sill of this opening both displayed several rotted areas. The crew was able to remove the surface rot from both features and consolidate the areas with an epoxy consolidate and then filling the treated areas with Timber Flex. Once the areas were filled the crew was able to prep, prime and apply two coats of latex paint to the sash and its jamb and sill thus completing all preservation activities to this opening.

- Window unit and opening #308 is in good condition the sash is not in need of any repair. The sill and box jamb exhibit minimal deterioration, the team was able to consolidate, fill, prep, prime and apply two coats of latex paint to the sash and its jamb and sill thus completing all preservation activities to this opening.

- Window unit and opening #309 were in good condition, the sash, jamb and sill
have been prepped, primed and painted. There were no significant repairs done to either features. Minor glazing repairs were completed on both sashes. All preservation activities involving this opening have been completed.

- Window unit and opening #310 were in good condition, the sash, jamb and sill have been prepped, primed and painted. There were no significant repairs done to either features. All preservation activities involving this opening have been completed.

- Window unit and opening #311 were in good condition, the sash, jamb and sill have been prepped, primed and painted. There were no significant repairs done to either features. Minor glazing repairs were completed on both sashes. All preservation activities involving this opening have been completed.

- Window unit and opening #312 were in good condition, the sash, jamb and sill have been prepped, primed and painted. There were no significant repairs done to either features. All preservation activities involving this opening have been completed.

- Window unit and opening #313 were in good condition, the sash, jamb and sill have been prepped, primed and painted. There were no significant repairs done to either features. Minor glazing repairs were completed on both sashes. All preservation activities involving this opening have been completed.

- Window unit and opening #314 were in good condition the sash is not in need of any repair. The box jamb exhibits minimal deterioration, the sill was deteriorated beyond repair it was removed and will be installed at a later date. The team was able to consolidate, fill, prep, prime and apply two coats of latex paint to the sash and its jamb. The opening will be complete upon the installation of the new sill.

After completion of tasks on the 4th floor of Bldg #35, one of our crew members was able to shift to the 2nd floor to remove the sill of window opening #213. The sill exhibited a numerous amount of deterioration; it will be replaced with a mahogany sill and installed when the crew works this elevation.

Preservation activities resumed with a focus on the seven window openings on the 2nd floor of Bldg#36.

- Window unit and opening #212 is in good condition, the sash is not in need of any repair. The sill and box jamb exhibit minimal deterioration, the team was able to consolidate, fill, prep, prime and apply two coats of latex paint to the sash, jamb and its sill thus completing all preservation activities to this opening.

- Window unit and opening #213 were in good condition, the sash, jamb and sill have been prepped, primed and painted. There were no significant repairs done to
either features. Minor glazing repairs were completed on both sashes. All preservation activities involving this opening have been completed.

- Window unit and opening #214 were in good condition, the sash, jamb and sill have been prepped, primed and painted. There were no significant repairs done to either features. Minor glazing repairs were completed on both sashes. All preservation activities involving this opening have been completed.

- Window unit and opening #215 was cleaned and prepped, the sill displayed serious deterioration and or rot, it has been removed. This opening is still being worked.

- Window units and openings #216-#218 have been cleaned, these units will be worked in the upcoming week.

In addition other preservation activities focused on the repairing, priming and painting of 47 of the 68 shutters belonging to buildings #35 & #36 combined.

**NOTE**

All Dutchman repairs will be made using mahogany.
All epoxy repairs will be made using one of the following products: Minwax, The West System, Timber Flex
All primers used are oil base.
All paints used are latex and are applied in two coats.

**PROJECTED WORK FOR THE UPCOMING WEEK**

The preservation day labor crew will continue to address window units and openings on the two buildings. The preservation team will also begin to apply the cooper flashing on top of the shutters.

**VISITORS TO THE SITE**

Richard Trott, Maintenance Supervisor, HAFE
Dennis Frye, Chief CRM/Interpretation, HAFE

**SAFETY**

The HPTC day labor crew discussed the importance of staying Hydrated when working during extremely hot and humid days, along with taking the appropriate amount of breaks.
WEATHER

Sunny with highs in the Upper 90’s to mid 80’s.

PERSONNEL ASSIGNED TO THE PROJECT

1 Maintenance Worker
1 Exhibits Specialist
1 Exhibits Specialist Supervisor

RECAP

Start Date: April 30, 2007
Completion Date: August 27, 2007
Percentage Completed: 35%
Starting Balance: $197,698.00

Marcus Mack  
Project Leader

cc: (electronically)  
Don Campbell, Superintendent, HAFE  
Michael Castagnetto, Facility Manager, HAFE  
Peter Dessauer, Architect, HAFE  
Richard Trott, Maintenance Supervisor, HAFE  
Dennis Frye, Chief CRM/Interpretation, HAFE  
Jennifer Flynn, Chief Ranger, HAFE
PARK: Harpers Ferry National Historical Park, Harpers Ferry, WV

PROJECT: Repair Alleys of Historic Buildings #35-36 (Preservation of Windows and Doors) Phase II HAFE Package 439/PMIS 11018

DATE: June 25, 2007 WEEK ENDING: June 21, 2007

GENERAL

Preservation activities continued on site with a focus on completing various repairs, painting window openings including the sash and installing any completed replacement features.

WORK PERFORMED THIS WEEK

On site activities opened with the continuation of preservation efforts focusing on the seven window openings on the second floor of building #36, most of the repairs were completed during the previous weeks work excluding the following repairs.

- Window unit and opening #215 - The sill of this opening displayed serious rot deposits. This sill was removed and replaced with a Mahogany sill. Once the sill was installed it was then painted thus completing all preservation activities to this opening.

- Window unit and opening #216 is in good condition the sash is not in need of any repair. The sill and box jamb show no deterioration, the team was able to prep, prime and apply two coats of latex paint to the sash and its jamb and sill thus completing all preservation activities to this opening.

- Window unit and opening #217 were in good condition, the sash, jamb and sill have been prepped, primed and painted. There were no significant repairs done to either features. Minor glazing repairs were completed on both sashes. All preservation activities involving this opening have been completed.

- Window unit and opening #218 were in good condition, the sash, jamb and sill have been prepped, primed and painted. There were no significant repairs done to either features. All preservation activities involving this opening have been completed.

Other preservation activities focused on the application of the copper flashing detail that
is attached to the top of the shutters. Procurement procedures were completed for the manufacturing of the replacement shutters. The contract for the bird netting was reviewed and awarded; installation of the netting will take place in early August.

On the 1st floor of building #36 the crew was able to replace several broken lites on the upper and lower sash of window sash #212. Other activities focused on the removal of the deteriorated sill of window opening #117 and the cleaning of the remaining 4 openings on the 1st floor.

NOTE

All Dutchman repairs will be made using mahogany.
All epoxy repairs will be made using one of the following products: Minwax, The West System, Timber Flex
All primers used are oil base.
All paints used are latex and are applied in two coats.

PROJECTED WORK FOR THE UPCOMING WEEK

The preservation day labor crew will continue to address window units and openings on the two buildings. The preservation team will also continue to install replacement material.

VISITORS TO THE SITE

Richard Trott, Maintenance Supervisor, HAFE

SAFETY

The HPTC day labor crew discussed the importance of wearing the appropriate personal safety equipment at all times, this will reduce the amount of preventable accidents.

WEATHER

Sunny with highs in the Upper 90’s to mid 80’s.

PERSONNEL ASSIGNED TO THE PROJECT

1 Maintenance Worker
1 Exhibits Specialist
1 Exhibits Specialist Supervisor

RECAP
Start Date: April 30, 2007  
Completion Date: August 27, 2007  
Percentage Completed: 55%  
Starting Balance: $197,698.00

Marcus Mack  
Project Leader

cc: (electronically)  
Don Campbell, Superintendent, HAFE  
Michael Castagnetto, Facility Manager, HAFE  
Peter Dessauer, Architect, HAFE  
Richard Trott, Maintenance Supervisor, HAFE  
Dennis Frye, Chief CRM/Interpretation, HAFE  
Jennifer Flynn, Chief Ranger, HAFE
GENERAL

Due to the observance of the 4\textsuperscript{th} of July Independence holiday, there will be a minimal amount of preservation activities addressed during the week of July 2\textsuperscript{nd}. The following weekly report will feature week five June 25\textsuperscript{th} - 29\textsuperscript{th} and week six July 2\textsuperscript{nd} - 6\textsuperscript{th} combined as one report.

WORK PERFORMED THIS WEEK

On site activities opened with the continuation of preservation efforts focusing on the six window openings on the first floor of building #36, several repairs were mentioned during the previous week weekly report.

- Window unit and opening #112 - is in good condition the sash is not in need of any repair. The sill and box jamb show no deterioration, the team was able to prep, prime and apply two coats of latex paint to the sash, jamb and sill thus completing all preservation activities to this opening.

- Window unit and opening #113 is in good condition the sash had two broken lites that have been replaced there was no need for any further repairs. The sill and box jamb show no deterioration, the team was able to prep, prime and apply two coats of latex paint to the sash and its jamb and sill thus completing all preservation activities to this opening.

- Window unit and opening #114 the jamb and sill of this unit displayed several rotted areas. The crew was able to remove the surface rot from both features and consolidate the areas with an epoxy consolidate and then filled the treated areas with Timber Flex. Once the areas were filled the crew was able to prep, prime and apply two coats of latex paint to the sash and its jamb and sill thus completing all preservation activities to this opening.
- Window unit and opening #115 were in good condition, the sash, jamb and sill have been prepped, primed and painted. There were no significant repairs done to either features. All preservation activities involving this opening have been completed.

- Window unit and opening #116 is in good condition the sash is not in need of any repair. The sill and box jamb show no deterioration, the team was able to prep, prime and apply two coats of latex paint to the sash and its jamb and sill thus completing all preservation activities to this opening.

- Window unit and opening #117 displayed serious rot damage to the sill; it was replaced with a mahogany sill. The sash is in great condition excluding one broken lite that has been replaced with restoration glass. The team was able to prep, prime and apply two coats of latex paint to the sash and its jamb and sill thus completing all preservation activities to this opening.

Other preservation activities focused on the prepping, priming, and painting of the existing shutter brackets.

**NOTE**

- All Dutchman repairs will be made using mahogany.
- All epoxy repairs will be made using one of the following products: Minwax, The West System, Timber Flex
- All primers used are oil base.
- All paints used are latex and are applied in two coats.

**PROJECTED WORK FOR THE UPCOMING WEEK**

The preservation day labor crew will continue to address window units and openings on the two buildings. The preservation team will also continue to install replacement material.

**VISITORS TO THE SITE**

None

**SAFETY**

The HPTC day labor crew discussed the importance of wearing the appropriate personal safety equipment at all times; this will reduce the amount of preventable accidents.
WEATHER

Sunny with highs in the Upper 90’s to mid 80’s.

PERSONNEL ASSIGNED TO THE PROJECT

1 Maintenance Worker
1 Exhibits Specialist
1 Preservation Worker
1 Exhibits Specialist Supervisor

RECAP

Start Date: April 30, 2007
Completion Date: August 27, 2007
Percentage Completed: 65%
Starting Balance: $197,698.00

Marcus Mack
Project Leader

cc: (electronically)
Don Campbell, Superintendent, HAFE
Michael Castagnetto, Facility Manager, HAFE
Peter Dessauer, Architect, HAFE
Richard Trott, Maintenance Supervisor, HAFE
Dennis Frye, Chief CRM/Interpretation, HAFE
Jennifer Flynn, Chief Ranger, HAFE
GENERAL

The HPTC team continues to address and complete preservation tasks associated with the window and door package of buildings #35-#36.

WORK PERFORMED THIS WEEK

Preservation activities resumed this week with a focus on the 6 sash of window openings 405-407 on the 4th floor of building #35. These sashes have undergone various procedures of stabilization and or reconstruction.

- On window unit #405 upper sash the preservation team was able to complete several small Dutchman repairs to the muttons before installing several pieces of the Bendhiem restoration replacement glass also reusing some of the existing lites. The lites were bedded and glazed in a linseed oil glazing compound. Following the glazing process as requested by the manufacturer the crew waited for the glazing to cure before priming and painting the new glazing.

- Window unit #405 lower sash was completely reconstructed. The preservation crew was able to reuse the majority of the existing lites, using the approved Bendhiem restoration glass for all replacements. The lites were bedded and glazed in a linseed oil glazing compound. Following the glazing process as requested by the manufacturer the crew waited for the glazing to cure before priming and painting the new sash.

- On window unit #406 upper sash the crew was able to re-pin all the joinery along with consolidating and filling several small deteriorating areas. The preservation crew was able to reuse the majority of the existing lites, using the approved Bendhiem restoration glass for all replacements. The lites were bedded and glazed in a linseed oil glazing compound. Following the glazing process as requested by
the manufacturer the crew waited for the glazing to cure before priming and painting the new glazing.

- Window unit #406 lower sash was completely reconstructed. The preservation crew was able to reuse the majority of the existing lites, using the approved Bendheim restoration glass for all replacements. The lites were bedded and glazed in a linseed oil glazing compound. Following the glazing process as requested by the manufacturer the crew waited for the glazing to cure before priming and painting the new sash.

- On window unit #407 upper sash the preservation team was able to complete several small Dutchman repairs to the muttons along with the bottom and left rails. Next the preservation team began installing several pieces of the Bendheim restoration replacement glass also reusing some of the existing lites. The lites were bedded and glazed in a linseed oil glazing compound. Following the glazing process as requested by the manufacturer the crew waited for the glazing to cure before priming and painting the new glazing.

- Window unit #407 lower sash was completely reconstructed. The preservation crew was only able to reuse 2 of the original lites, using the approved Bendheim restoration glass for the remaining 10 lites. The lites were bedded and glazed in a linseed oil glazing compound. Following the glazing process as request by the manufacturer the crew waited for the glazing to cure before priming and painting the new sash.

Other preservation activities focused on the prepping, priming, and painting of the new shutter brackets. In addition the crew also primed and painted the new Clam shell shutter dogs.

**NOTE**

All Dutchman repairs will be made using mahogany.
All epoxy repairs will be made using one of the following products: Minwax, The West System, Timber Flex
All primers used are oil base.
All paints used are latex and are applied in two coats.

**PROJECTED WORK FOR THE UPCOMING WEEK**

The preservation day labor crew will continue to address window units and openings on
the two buildings. The preservation team will also continue to install replacement material.

VISITORS TO THE SITE

None

SAFETY

The HPTC day labor crew discussed the importance of wearing the appropriate personal safety equipment at all times; this will reduce the amount of preventable accidents.

WEATHER

Sunny with highs in the Upper 90’s to mid 80’s.

PERSONNEL ASSIGNED TO THE PROJECT

1 Maintenance Worker
1 Exhibits Specialist
1 Preservation Worker
1 Exhibits Specialist Supervisor

RECAP

Start Date: April 30, 2007
Completion Date: August 27, 2007
Percentage Completed: 70%
Starting Balance: $197,698.00

Marcus Mack
Project Leader

cc: (electronically)
Don Campbell, Superintendent, HAFE
Michael Castagnetto, Facility Manager, HAFE
Peter Dessauer, Architect, HAFE
Richard Trott, Maintenance Supervisor, HAFE
Dennis Frye, Chief CRM/Interpretation, HAFE
Jennifer Flynn, Chief Ranger, HAFE
NATIONAL PARK SERVICE
HISTORIC PRESERVATION TRAINING CENTER (HPTC)
WEEKLY FIELD REPORT #7
FY-07

PARK: Harpers Ferry National Historical Park, Harpers Ferry, WV

PROJECT: Repair Alleys of Historic Buildings #35-36 (Preservation of Windows and Doors) Phase II HAFE Package 439/PMIS 11018

DATE: July 23, 2007 WEEK ENDING: July 20, 2007

GENERAL

The HPTC wood crafting team continues to address and complete preservation tasks associated with the window and door package of buildings #35-#36. The HPTC masonry crew will begin stabilization/preservation activities next week with the cleaning of the two associate buildings. The masonry section will provide the park with weekly reports to inform all concerned parties of their progression throughout the next couple of weeks.

WORK PERFORMED THIS WEEK

This week preservation activities opened with the installation of the six sash that were addressed during last week. The day labor crew began sash installation starting with window unit #407. Our crew was able to install the sash using all of the existing exterior stop material.

Next the crew began to install the sash of window units #406 & #405; the team was not able to reuse any of the existing exterior stops due to large amounts of deterioration. Once these sashes were installed the crew members began to touch up and clean the sash. Upon completing the cleaning process the HPTC day labor crew has completed, installed and made functional all sash on the 4th floor of building #35.

Other preservation activities focused on the hanging of two pair of shutters belonging to window units #404, #405& #406. In addition to hanging the shutters the crew was able to install two clam shell shutter dogs on exterior of window unit #404 to hold the shutters in place.

NOTE

All Dutchman repairs will be made using mahogany.
All epoxy repairs will be made using one of the following products: Minwax, The West System, Timber Flex
All primers used are oil base.
All paints used are latex and are applied in two coats.
PROJECTED WORK FOR THE UPCOMING WEEK

The preservation day labor crew will continue to address window units and openings on the two buildings. The preservation team will also continue to install shutters and shutter dogs.

VISITORS TO THE SITE

None

SAFETY

The HPTC day labor crew discussed tool box topic Eye Safety.

WEATHER

Sunny with highs in the Upper 90’s.

PERSONNEL ASSIGNED TO THE PROJECT

1 Maintenance Worker
1 Exhibits Specialist
1 Preservation Worker
1 Exhibits Specialist Supervisor

RECAP

Start Date: April 30, 2007
Completion Date: August 27, 2007
Percentage Completed: 75%
Starting Balance: $197,698.00

Marcus Mack
Project Leader

cc: (electronically)
Don Campbell, Superintendent, HAFE
Michael Castagnetto, Facility Manager, HAFE
Peter Dessauer, Architect, HAFE
Richard Trott, Maintenance Supervisor, HAFE
Dennis Frye, Chief CRM/Interpretation, HAFE
Jennifer Flynn, Chief Ranger, HAFE
PARK: Harpers Ferry National Historical Park, Harpers Ferry, WV

PROJECT: Repair Alleys of Historic Buildings #35-36 (Preservation of Windows and Doors) Phase II HAFE Package 439/PMIS 11018

DATE: July 30, 2007 WEEK ENDING: July 27, 2007

GENERAL

HPTC wood crafting team vigorously continues to complete preservation tasks associated with the window and door package of buildings #35-36. The daily labor crew has completed all repairs on the window openings and window units on both buildings #35-#36.

WORK PERFORMED THIS WEEK

Preservation activities resumed this week with a focus on prepping, painting and installing the repaired and reproduction shutters. Once all of the shutters were painted members of crew began mortising hinge pockets for shutter hinges. Upon completing the mortising of a set of shutters the mortised areas were primed and painted before attaching the hinge. After the hinges are attached to the shutter, the shutter is then hung. Following the hanging of a set of shutters, the shutters are opened completely in order to install the shutter dogs appropriately below each shutter. The preservation crew continued this operation thru the course of the week.

NOTE

All Dutchman repairs will be made using mahogany.
All epoxy repairs will be made using one of the following products: Minwax, The West System, Timber Flex
All primers used are oil base.
All paints used are latex and are applied in two coats.

PROJECTED WORK FOR THE UPCOMING WEEK

The preservation team will continue to install shutters and shutter dogs.

VISITORS TO THE SITE
None
SAFETY

The HPTC day labor crew discussed tool box topic Heat related injuries.

WEATHER

Sunny with highs in the Upper 90’s.

PERSONNEL ASSIGNED TO THE PROJECT

1 Maintenance Worker
1 Exhibits Specialist
1 Preservation Worker

RECAP

Start Date: April 30, 2007
Completion Date: August 27, 2007
Percentage Completed: 85%
Starting Balance: $197,698.00

Marcus Mack
Project Leader

cc: (electronically)
Don Campbell, Superintendent, HAFE
Michael Castagnetto, Facility Manager, HAFE
Peter Dessauer, Architect, HAFE
Richard Trott, Maintenance Supervisor, HAFE
Dennis Frye, Chief CRM/Interpretation, HAFE
Jennifer Flynn, Chief Ranger, HAFE
PARK: Harpers Ferry National Historical Park, Harpers Ferry, WV

PROJECT: Repair Alleys of Historic Buildings #35-36 (Preservation of Windows and Doors) Phase II HAFE Package 439/PMIS 11018

DATE: August 20, 2007 WEEK ENDING: August 17, 2007

GENERAL

The following report covers the two previous weeks on site activities. The awarded contractor Bird Solutions began bird netting and anti-roosting activities on August 7th 2007. Bird Solutions is responsible for netting the combined 33 window openings and applying the anti-roosting device on top of the associated shutters on each opening. The contractor will also net the 30ft of brick corbel under the gutter system on building #36, including the window opening belonging to the rear door unit of building #36. On Friday, August 10th 2007 with the assistance of a preservation crew member the awarded contractor was able to complete all netting and anti-roosting activities within the alleyway of buildings #35&36. The HPTC masonry team completed all cleaning and tuck pointing activities within the alleyway.

WORK PERFORMED THIS WEEK

Preservation activities resumed with a focus on the completion of the installation of the shutters and shutter birds. Other activities focused on the temporary removal of the gutter system of building #36 in order to apply the bird netting over the brick corbel under the gutter system. In order to remove the gutter, the crew had to remove all pop rivet fasteners that were attached to lead coated copper strips, which hold the gutter in place. Once the netting was installed the crew than reinstalled the gutters using the same pop rivet method. In addition crew members were able to inspect each window opening and shutter to insure that all necessary repairs and or painting activities were completed and acceptable prior to the installation of the bird netting and anti-roosting.

NOTE

All Dutchman repairs will be made using mahogany.
All epoxy repairs will be made using one of the following products: Minwax, The West System, Timber Flex
All primers used are oil base.
All paints used are latex and are applied in two coats.
PROJECTED WORK FOR THE UPCOMING WEEK

The preservation team will begin site demobilization.

VISITORS TO THE SITE

Peter Dessauer, Historic Architect, HAFE

SAFETY

The HPTC day labor crew discussed tool box topic Heat related injuries.

WEATHER

Sunny with highs in the Upper 90’s.

PERSONNEL ASSIGNED TO THE PROJECT

1 Maintenance Worker
1 Exhibits Specialist
1 Preservation Worker

RECAP

Start Date: April 30, 2007
Completion Date: August 27, 2007
Percentage Completed: 100%
Starting Balance: $197,698.00

Marcus Mack
Project Leader

cc: (electronically)
Don Campbell, Superintendent, HAFE
Michael Castagnetto, Facility Manager, HAFE
Peter Dessauer, Architect, HAFE
Richard Trott, Maintenance Supervisor, HAFE
Dennis Frye, Chief CRM/Interpretation, HAFE
Jennifer Flynn, Chief Ranger, HAFE
Material Data/Vendors
# HAFE Vendors

## List of Materials and Manufactures

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<th>VENDOR CODE</th>
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---END HSTR REPORT--