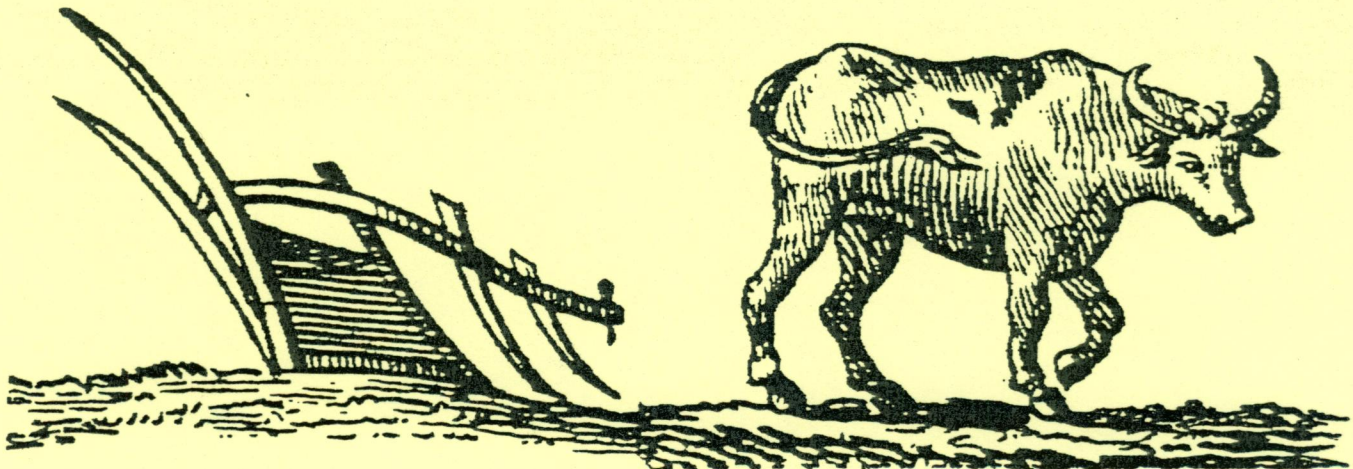


# RESOURCE MANAGEMENT PLAN



MINUTE MAN NATIONAL HISTORICAL PARK  
Concord-Lincoln-Lexington, Massachusetts



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**Note:** The Project Statements equal 142 pages.  
If they are not attached and you need  
them, contact Dan Dattilio at (508) 369-6993.

## I. INTRODUCTION

Minute Man National Historical Park was established by Congress (Public Law 86-321) on September 21, 1959, "to preserve for the benefit of the American people certain historic structures and properties of outstanding national significance associated with the opening of The War of the American Revolution,..." including "...a number of historic properties, building, sites, and objects, ...including the road and roadsites between Lexington and Concord, are intimately connected with the events that opened the war, and consequently, merit preservation and interpretation in the public interest as prime examples of the Nation's historical heritage."

The park lies within the towns of Concord, Lincoln, and Lexington. There are three sections comprising the 1,000 acre park: The Battle Road Unit, where the running battle which initiated the American Revolution began; the North Bridge Unit, site of the "shot heard round the world"; and the Wayside Unit, which includes the home of three prominent 19th-century literary families.

A new General Management Plan was approved by the Regional Director July 11, 1990, and it outlines basic management strategies that will ensure the protection of the park's significant cultural resources, provide better opportunities for visitor understanding of the events of the first day of the Revolutionary War - April 19, 1775, evoke the 1775 cultural landscape, and provide facilities needed for visitors to appreciate the park's unique resources.

The preservation of the park's cultural resources and the reestablishment of the historic landscape are two primary resource management objectives. The cultural resources consist of 17 historic buildings, numerous monuments and archaeological sites and a museum collection of over 216,000 artifacts, which includes archaeological, archival and historical items. The historic landscape within the park consist of fields, forest, wet lands and examples of local flora and fauna. In overseeing the historic landscape within the park, the GMP emphasizes the reestablishment and management of the cultural landscape as essential for visitor understanding of the historic event.

Actions affecting management and treatment of the Park's Cultural Resources are guided by the Programmatic Memorandum of Agreement. In partnership with the Massachusetts State Preservation Office, and the Advisory Council on Historic Preservation, the PMOA simultaneously supports and regulates the primary management objective of preservation and restoration of park historic

structures and historic landscape.

The "Land Protection" section of the General Management Plan describes the land protection strategies to protect lands within and adjacent to Minute Man National Historical Park for their current or potential ability to effect (1) the primary historic resources the park was created to protect, (2) the historic scene, which adds depth and understanding to the interpretation of those resources, and (3) visitor safety, through public and private rights-of-way across park lands.

The Resource Management Plan for Minute Man National Historical Park describes the resources preserved within the park as well as the active or potential activities for managing those resources. Numerous variety of research initiatives, baseline studies, and manipulative and protective techniques are integrated into a comprehensive resource management program.

In September 1991, a Cultural Landscape Management Plan was initiated. Two phases have been completed. Both were conducted under a cooperative agreement between the University of Massachusetts and the NPS, and provides a "case study in cultural landscape management for the NPS, the historic preservation community, and the public". Phase I of the plan initiated the compilation of a digital spatial data base and assessment of land suitable for agricultural reintroduction. The interpretive potential of the Park's historic resources, such as restored buildings, stone walls, and 1775 battle sites, was also studied. The goal of Phase II was to develop a cultural landscape treatment plan to guide the Park's programs in both cultural landscape management and interpretation.

The Fire Management Plan (approved 1992) is part of the park's Resource Management Plan and defines the goals and objectives for wildland fire management. It provides a technical framework for all aspects of fire management including prevention, presuppression and suppression. It also proposes an experimental prescribed burning program to restore and maintain historic scenes.

A significant initiative begun in 1993, will address the problem of visitor access in the Battle Road section. Today some 4 to 5 million commuters a year drive through this part of the park making it extremely difficult for visitors to stop and visit significant sites. The park brochure states "it may be not be safe to slow down and sightsee". The manner in which this impacts the visitor's experience and safety can be described as severe. As a way of resolving this issue \$300k was appropriated in 1993, to study the feasibility of building a bikeway that

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would travel the length of the Battle Road section. This study has been broadened to determine what manner of trail system--bikeway or walking--would be most appropriate for Minute Man.

Because of today's high traffic volume use along the Battle Road, all that the Park has to offer there in terms of cultural, historical and natural resources cannot be experienced by the visitor. Since it is certain that Route 2A will not be moved in the near future, the Park must develop an adequate trail system in order to provide safe visitor access. The development of a trail system must address numerous issues including meaningful interpretation, safety, sensitivity to agricultural and preservation of cultural landscapes and wildlife habitats.

## II. PRESENT RESOURCE STATUS

### A. Natural Resource Baseline Information:

#### 1. Vegetation:

Level 1 standards for biological inventory and monitoring require the production of initial species inventories, general habitat records, and production of preliminary maps to aid in determining points of greatest species diversity, fragile areas, and potential sources of impact. Current vegetative baseline information does meet Level 1 requirements.

A parkwide biological inventory, coordinated through the Massachusetts Natural Heritage & Endangered Species Program, was conducted during 1991-93. The two main objectives of the ecological reconnaissance were to 1) develop a digital map of vegetation communities that existed in 1986 at Minute Man National Historical Park and 2) to develop a digital map of areas of concern with respect to the presence of rare or unique species or habitats.

Photo interpretation of land use and vegetative cover types was based on true color print reproductions at 1:48,000 scale (1"=400') dated April 5, 1986. A minimum mapping unit of 0.1 ha was established for this project. Photos were interpreted using a Topcon Mirror Stereoscope (Model 3), and field verification was conducted during five days in early December, 1991. This Data was entered into a GIS system to produce vegetative cover maps.

The more detailed field studies, conducted the summers of 1992-93, documented and evaluated the plant communities occurring at the park, located exemplary communities, and found rare species. The field research included assessment of the quality of natural communities or habitats with particular attention to wetland communities. Also included was the preparation of species lists of indicator or characteristic species for noteworthy sites and inventorying for rare or uncommon plant species. The habitats investigated included streams, wooded swamps, shrub swamps, and marshes as well as second growth and successional upland areas. This more detailed analysis was entered into the GIS.

A listing of indigenous vegetation, derived from resources provided by a bordering Federal wildlife refuge and local conservation organizations, was developed as an appendix to the park's approved Fire Management Plan (1992).

The park uses a PC-Based GIS, ArcView, and currently has data relating to approximately 90 themes for the park.

## 2. Animal Species:

Level 1 standards for wildlife inventory and monitoring require the production of initial species inventories, general habitat records, and production of preliminary maps to aid in determining points of greatest species diversity, fragile areas, and potential sources of impact. Current wildlife baseline information does meet Level 1 requirements.

The 1992-1993 parkwide biological inventory made major advances in developing animal species lists. The objectives of the study included inventorying vernal pools, habitat assessments, inventorying rare or uncommon reptiles, amphibian, and invertebrate species, inventorying nesting habitat of uncommon bird species and the preparation of species lists of indicator or characteristic species for noteworthy sites. Additionally the field research called for assessment of the quality of natural communities or habitats with particular attention to wetland communities.

The study points out that the level of bio-diversity is limited due to a number of factors, including location and physical shape. However, a moderate representation of the typical fauna of eastern Massachusetts occurs at Minute Man. Survey findings include observations of 61 species of breeding birds, 12 species of breeding amphibians, 8 species of reptiles, 12 species of fish, 42 species of butterflies, 30 species of odonates and a variety of aquatic macro-invertebrates. Of a theoretical 42 species of wild mammals, 32 were confirmed to be present.

Of nine species of salamanders known to occur in eastern Massachusetts, four species were found with Minute Man National Historical Park.

High priority wildlife management areas were entered into the park's GIS system. Also, included were habitats of State listed species.

An animal observation database is maintained by the Division of RM & VP.

### 3. Aquatic Resources:

The aquatic resources of Minute Man National Historical Park consist of a wide variety of palustrine and riverine systems. In a general way these areas have been identified by the US Fish and Wildlife Service (National Wetlands Inventory - 1989). However, in a more exact manner, the biological survey of 1991-93 (Ecological Reconnaissance: August, LaBash, Keniski, 1992) mapped 222 acres of 8 varieties of wetland. Baseline data meeting Level I requirements exist for general descriptions of hydrologic systems, biological data and groundwater mapping. Studies concerning groundwater quality, physical and chemical limnology do not meet Level I requirements

A project statement is needed to gather baseline data on water quality. Basic water quality measurements; pH, conductivity, dissolved oxygen, temperature, salinity, and chemical/bacterial analyses, are needed.

The park currently faces no water quantity issues. Flow levels are adequate to preserve natural processes and cultural features.

Level of Effort I has not been achieved for aquatic resources.

#### 4. Air Resources:

The park has never conducted an air quality study. There is a nearby U.S. Environmental Protection Agency regional laboratory located in Lexington. The Ambient Air and Emissions Monitoring Section reports on air quality in it's "Annual Report on Air Quality in New England." Lead, carbon monoxide, ozone, sulphur dioxide, nitrogen oxides, and suspended particulate matter indices are reported at up to 33 sites in Massachusetts. In 1990 the National Air Quality Standard for ozone (.12 ppm) was exceeded at nine of sixteen reporting stations an average of zero to three days. All other indices remained at or below acceptable levels.

The park maintains a fire weather station as part of the fire management program. During the fire season (March 1-May 31 and September 30-November 30) fire weather indices are reported daily through the Administrative Forest Fire Retrieval and Management System (AFFIRMS) and contribute to the national fire weather database. Monitored indices include wind speed, wind direction, relative humidity, temperature, precipitation, and fuel moisture.

A project statement to conduct a study to determine the effects of local air quality on park cultural resources is included in this RMP.

## 5. Geologic Resources:

The overall topography of the park is characterized by flat plains and low-rolling hills composed of unconsolidated glacial deposits that overlie a complex geology of metamorphic and igneous bedrock. The rounded hills are composed of glacial till with a bedrock core. The land is mostly a gently-rolling coastal plain covered with stony glacial tills and some glacial sands and gravels. There are only a few bedrock outcrops and no major cliffs. Impervious layers are common, and there are a number of small kettlehole ponds and swampy basins. Small alluvial terraces occur along Mill Brook, and larger ones along the Concord River. The park lies within the Seaboard Lowland Section of the New England physiographic province.

The primary geologic resource at Minute Man NHP is soils. The park has digitized soil maps (Soil Conservation Service, 1986), which have been integrated into the park's Geographic Information System (GIS). Through cooperative agreement, the GIS was developed by the Universities of Massachusetts and Rhode Island. With completion of the GIS, the Level I has been achieved for soils (as of 4/93).

## 6. Aesthetic Resources

The three sections of Minute Man National Historical Park are located within the northwest parameter of the metropolitan area which surrounds Boston, MA. Comprehensive land cover maps using a GIS system have been developed for the entire park. Approximately half the of park land is forested and the remaining open agricultural or wetland (there are 222 acres of wetland). Much of the surrounding land is in a transitional stage from rural agriculture to residential or high-tech industrial. Protection and restoration of aesthetic resources such as landscapes and vistas are critical to the preservation of the park.

The overall surrounding landscape consist of open space and rolling hills which related to the open, rural landscape that existed during the Revolutionary War. To the north of the Battle Road unit Hanscom AFB has a mixture of open land, dense residential and office buildings. In the towns of Lincoln and Concord can be seen open and forested conservation lands.

A Cultural Landscape Report/Plan was completed in cooperation with the University of Massachusetts in 1993. A major recommendation of the Plan is to open historic landscape by way of agricultural re-introduction. There will need to be careful planning to ensure that reduced screening does not create views of modern development. Also, in some situations it will be more prudent to retain forest growth so as to shield traffic noise and provide for a more meaningful interpretive experience.

## B. Natural Resources

### 1. Vegetation:

According to the 1992-93 plant community survey the dominant plant communities, in order of abundance, are dry-mesic oak-hickory forests, mesic oak-maple forest, wet-mesic red maple forests, and wet red maple swamps. There are also four small ponds, a number of open wetlands, a substantial amount of active agricultural land, and a number of post-agricultural thickets and young successional wood.

The woody flora is fairly diverse with 29 native species of trees, 27 species of upland shrubs, and 12 species of wetland shrubs. A management concern are the 10 alien woody species that are well established. Three of these, European bush honeysuckle, common buckthorn and European buckthorn, are locally dominant in thickets and in the understories on many woods, to the detriment of native species.

Perhaps the most discussed plant in recent years is poison ivy. Poison ivy growth is quite prolific and is a constant worry for employees and visitors. There will have to be an active program for its elimination in high use areas.

The wetland flora contains approximately 96 species of wetland herbs and 12 species of wetland shrubs. It is largely a native flora, with the exception of purple loosestrife, reed canary grass, and the two buckthorn mentioned above. These four alien species are unfortunately extremely common here, and have altered a number of examples of both wooded and open wetlands to the point where they have very little value as native communities.

A more broad-based goal, as enunciated in the General Management Plan, is the eventual restoration of certain portions of park land to their 1775 appearance. Included in this category will be the use of historic agricultural leasing to maintain open fields and the restoration and/or establishment of orchards. Some of this has already been accomplished. An objective for the interpretive program is to establish historic cultivars of plants used in agriculture during the 18th-century. These would be used in small demonstration grow sites for interpretive purposes.

The Gypsy Moth is the only forest pest that has been identified at the park. The last great Gypsy Moth infestation occurred in 1988. Population levels since then seem to have been low.

## 2. Animal Species:

A principal challenge in resource management at Minute Man is attaining the appropriate balance between management for agriculture and management for wildlife habitat. Although Minute Man's primary mission relates to the preservation and interpretation of cultural resources it is still possible for the park to fulfill its obligation as a conservator of natural resources and to enhance habitat preservation and management. This can be accomplished through a variety of methods beginning with the implementation of recommendations made through the biological inventory.

Significant survey finding included the following: Two state-listed invertebrates, Mystic Valley Amphipod and Elderberry Borer Beetle, were found. Spotted Salamander, a watch-listed species was also found. Common Shiner occurs nearby. Also, Frosted Elfin, a rare butterfly species in Massachusetts, was also found in the park.

The lands of Minute Man NHP possesses a moderately diverse representation of the fauna of eastern Massachusetts. Contributing to this are several factors such as the park being bisected by large roadways throughout its length, its generally long and linear shape, being located in a area of moderately dense human development, fragmented habitats and pollution of aquatic systems. These all contribute to the absence of rare species with large home ranges. Those with specialized habitat requirements are either absent or present in fairly low numbers. Despite these limitations Minute Man NHP does support healthy populations of a large number of vertebrate and invertebrate wildlife species. The park currently serves an important, although secondary, purpose as a refuge for wildlife in a suburban region that is facing severe development pressures.

Management actions, which fit into three general categories, could significantly enhance Minute Man's role as a regional resource for wildlife conservation and public education. The three general categories are:

1. Further resource inventory and research
2. Habitat preservation
3. Habitat Management, Enhancement, and Acquisition.

Over 25 detailed, wildlife management recommendations, addressing each of these categories, are detailed in the 1991-93 Parkwide Biological Inventory Report. These actions should be considered as the park implements the main components of the new General Management Plan.

### 3. Aquatic Resources:

The park lies along watershed boundaries of the Concord River, the Shawsheen River, and the Charles River. The Concord River flows through the North Bridge unit of the park. The Concord River is a slow-moving river with a wide floodplain and extensive contiguous wetlands. The primary sources of potential water pollution include; toxins from industrial operations, agricultural runoff, road maintenance salt, and erosion.

In 1982, an upstream industrial facility was identified as an EPA superfund site. Elevated mercury levels were detected in fish, surface water, and sediment samples. In response, the Massachusetts Dept of Environmental Protection, posted fishing advisories along portions of the Concord River, including the section which flows through the park. The plant has closed and mercury is no longer being discharged into the river. The EPA conducts periodic sample analyses collected from numerous locations along the river. The most recent test results indicate; minimal contamination in the surface water, fish samples have high levels of methyl mercury, PCB's and pesticides were also detected, and the sediment has extensive contamination; primarily mercury, chromium and lead (July 1991). As mercury is very persistent in the environment, it cannot be predicted when or if the mercury levels will decrease. Currently the EPA is completing construction of a multi-layer cap to contain wastes.

As more parkland is converted to orchards & agricultural fields, the potential exists for increased pesticide use. In addition, much adjacent land use is agricultural. The park proposes to draft a comprehensive IPM plan to address the expanding agricultural leasing program, and the establishment of orchards. A monitoring program to detect the presence of residual pesticides in soils and water, will be a component of the plan.

Route 2A, which bisects the park and serves as a major commuter corridor for Boston, receives primary consideration during snow removal operations. Excessive salt may be a potential threat to park wetlands which border the highway on the north and south, however no survey has been conducted to verify the concern. Lands south of the park lie within the watershed for the city of Cambridge reservoirs. Contaminated runoff is an environmental concern and may also be a human health concern. All roads in this vicinity have been designated "Low Salt Use" areas. To the extent possible, no development will be done in the floodplain of the Concord River or its tributaries. Any development determined to be in the 100 and 500 year floodplains will comply with Floodplain Management Guidelines for Implementing Executive Order 11988 (Water Resources Council, Federal Register, Feb. 10, 1978).

#### 4. Air Resources:

Local air quality, as reported by the U.S. Environmental Protection Agency, Ambient Air and Emissions Monitoring Section, is acceptable. In 1990 the National Air Quality Standard for ozone (.12 ppm) was exceeded at nine of sixteen monitoring stations an average of zero to three days. All other indices, including sulphur dioxide, a major contributor to acid rain, remained within acceptable limits.

The park proposes to conduct a study to determine the deleterious effects, if any, of local air quality on park cultural resources, particularly bronze statuary and monuments. This baseline data will better enable cultural resources preservation staff to assess the need for and plan appropriate mitigative action. Refer to the project statement found in this RMP.

## 5. Geologic Resources:

The soils at Minute Man NHP have been in agricultural use almost continuously since 1700. Historically, the landscape consisted of fields, pastures and homelots, interspersed with orchards, woodlands and marshy areas. These same elements can be found in the park today, but not to the same extent. To date, only minimal recreation of the 1775 agrarian landscape has been undertaken at the park.

As the park implements the GMP and treats cultural landscapes the potential impact on soils will intensify. Monitoring soils for such attributes as compaction, erosion, fertility, and chemical properties, will be an essential component of the process. Monitoring will be particularly vital in areas of the park with wetlands which have erodible and sensitive soils easily damaged by human activity.

Two properties purchased by the park, Trainor Field and the Perry Farm, had their topsoil removed previous to sale. In order to put these areas back into active, productive agriculture it will be necessary to first replace the topsoil.

An area of the park along the north boundary, immediately east of Hanscom Drive, was once used as part of a gravel pit for the construction of Interstate 95. Some of this land is presently owned by the Hanscom AFB but will be transferred to the NPS in the near future. Most of this land is the slope to the gravel pit and will need some stabilization to prevent erosion. Plans are to have the park trail system pass near the top of the slope. The park has no major concerns about mineral or mining issues. The possibility of such an issue occurring in the future is very low.

A unique geological resource, which has since turned into a major cultural resource, are the ubiquitous stones which have been used for creating rockwalls since the early 1600s. Some 30 miles of rockwalls throughout the park have been mapped and entered into the GIS. There are two threats to this cultural resource. The first, unregulated vegetative growth, has caused many rock walls to fall apart. The second threat, and more devastating, is theft. This is easily gauged when the width and height of rockwalls along park roads is compared to the same of rockwalls in inaccessible areas. It is quite clear that thousands of rocks have been removed by persons passing through the park. Reports are often received from park visitors or neighbors about people seen loading their trunks with rocks from many of the rock walls. This problem can be curtailed with improved landscaping, increased patrol and a public information program.

## 6. Aesthetic Resources:

Battle Road Unit: Restoration and protection of aesthetic resources such as landscapes and vistas are critical to the preservation of the Minute Man environment. The five miles of land along the Battle Road provides a unique opportunity for viewing a New England vernacular landscape made more dynamic by seasonal changes and agricultural activity. The approximately 850 acres of land comprising The Battle Road Unit consist of forest, scrubland, agricultural fields, hedge rolls and wetlands. Some of the agricultural fields retain the same configuration as during the period of significance and have been in continuous agricultural use since 1775. Approximately 150 acres of land is presently in agricultural use and is closely monitored for amount and type of pesticide use.

A major landscape treatment recommendation made in the Cultural Landscape Plan is to restore the historic scene through agriculture re-introduction. Analysis of GIS data shows that 300 to 400 acres of land can be put back into productive agricultural use. Most of this land is presently in a fallow state ranging from forested land that has not been farmed for 30 years to land farmed as recently as 1990. At least half of the land just outside the park boundary presents current or possible viewshed threats. Some of these viewshed problems are presently visible and others are screened by park vegetation. Any plan for the reduction in vegetation to increase agriculture will have to carefully consider the affects on the viewshed.

The re-introduction of agriculture in and of itself will be a major undertaking within the resource management program. The issues involved include environmental compliance, farming for profit and stewardship, soil conservation, sustainable agriculture, cover cropping systems, balancing wildlife habitat and agriculture, coordinating crop management associations, effective weed management, and integrated pest management.

North Bridge Unit: The area immediately near the North Bridge has taken on a commemorative appearance due to the planting of trees and construction of monuments and stone walls, over a period of time, with the expressed purpose of honoring the site. It is important to note that while the good aesthetics of this cultural/historic landscape do not necessarily reflect an accurate historical scene they do does represent the manner in which a significant site has been honored over time.

The land northwest of the North Bridge area more closely represents the 1775 era; Buttrick Hillside is leased out for haying and Flint Field is leased out for pasturing livestock.

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The grounds and gardens near the Buttrick Mansion are generally maintained consistent with the original landscape design for that area. When visitors walk in the Buttrick gardens they experience a well maintained and aesthetically pleasing landscape, however, it is not one which correctly reflects the period.

C. Cultural Resource Baseline Information

1. Planning Documents

The Outline of Planning Requirements and the Development Concept Plan have not been completed for the park.

2. Servicewide Inventories, Lists, Catalogs, and Registers

The Cultural Resources Bibliography needs updating. A Cultural Sites Inventory has not been completed for the park. Although the National Catalog of Museum Objects is added to annually, a backlog of uncataloged artifacts continues to exist.

3. Basic Cultural Resource Documents

Archeological Evaluation Studies are needed. The Ethnographic Overview and Assessment, Ethnographic Oral Histories and Life Histories, and the Ethnographic Program are not needed because they are not applicable to the mission of the park.

4. Special Resource Studies and Plans

A draft Cultural Landscape Report has recently been completed, however, a Historic Structure Preservation Guide and Social Impact Study are needed. Several Historic Structure Reports are also required. A draft exhibit plan exists. The Ethnohistory and Traditional Use Study are not needed because they are not applicable to the mission of the park.

## D. Cultural Resources

### 1. Sites

#### Historic:

The park is divided into three detached sections: the Battle Road unit, the North Bridge unit and the Wayside unit.

The Battle Road unit encompasses the route of the British march between Meriam's Corner in Concord to Fiske Hill in Lexington, a distance of approximately four miles. The key historic sites include those places where the skirmishing between the British troops and the Colonial militiamen was most intense; Meriam's Corner, Hardy's Hill, the Bloody Angles, the Bluff and Fiske Hill. Other key sites include Nelson Road, where the stories of Josiah Nelson encountering the advance British patrol and William Thorning killing two British from "Minute Man Boulder" are interpreted, the Paul Revere Capture Site, and the "Bay Road Historic District" along Virginia Road, where the restored Ephraim Hartwell Tavern and Captain William Smith House are used to relate the events of April 19, 1775.

The North Bridge unit contains the site of the bridge and the road where the first British soldiers were killed, the graves of the two British soldiers killed there, and the famous Minute Man statue done by Daniel Chester French in 1775.

The Wayside unit contains the home and grounds occupied by several significant literary figures, including the Alcotts, the Hawthornes and the Lothropes.

#### Archeological:

There are fifty-four identified archeological sites in Minute Man NHP. Fourteen are prehistoric sites and the other forty are historical sites. Archeological work began at the park in 1963 and continues to the present. The majority of the studies were undertaken in connection with restoration projects. The work was done in order to increase documentary or architectural information. Most of the excavations focused on specific sites, for example, a farm which was known to have existed in 1775.

From 1979 on most of the archeological work was done to comply with section 106 of the National Historic Preservation Act. This work was done to determine if planned construction would effect archeological remains rather than to increase documentary or architectural information.

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In 1984 the Minute Man NHP Archeological Project was begun. The program had three objectives one of which was to conduct a systematic survey of the park in order to identify and evaluate the significance of the archeological sites. The project was completed in 1990.

Archeological sites in the park have been disturbed. Violations of the Archeological Resource Protection Act have been documented. These have included the use of metal detectors and the removal of items, such as fragments of glass bottles.

In regards to historic structures, in the past most archeological investigation at Minute Man has been undertaken primarily to locate 18th century house remains. As a result, the yards around most of the extant buildings have never been systematically excavated. These yards probably contain the remains of the households domestic and agricultural activities including gardens, fences, walkways, etc.. The houses and yards surrounding these potential resources should be considered an archeological resource as well as an architectural one.

Stone Walls:

A 1992 survey and inventory has documented approximately 30 miles of rock walls. Most rock walls have a deteriorating and neglected appearance which has contributed to their depletion due to theft. Further study is needed to determine the condition, characteristics and age of rock walls. This information will be used to establish priorities and solutions to rock wall preservation and restoration problems.

Other cultural resources found in the park include historic farm roads and trails, historic trees and historic cultivars in orchards and homesites.

## 2. Structures

There are presently 29 historic structures within Minute Man National Historical Park. Thirteen of the historic structures were standing at the time of the fighting on April 19th, 1775; of the remainder half were built between 1776 and 1900 and the rest in the 20th century. The primary historic structures and their significance are as follows:

The Buttrick Mansion (1911) - Home of Stedman Buttrick. This two and one half story brick structure, Georgian in style, sits within the historic North Bridge area facing the Concord River. The interior now contains park offices and the park's only year round visitor center. This structure is in good structural condition with low impact severity.

The Wayside (1717) - The home of Samuel Whitney, Concord Muster Master in 1776, the house was later the home of Bronson Alcott and family, Nathaniel Hawthorne, then Daniel and Harriet Lothrop ("Margaret Sidney" to her readers). It has had several architectural additions added to it during the 19th century. This structure is in need of a structural evaluation and drainage system on the north side to address potential foundation, sill and post problems. The condition of this structure is fair and the impact severity is moderate.

John Buttrick House (1715) - Its place in the historic scene is its association with Major John Buttrick, the officer who led the colonial forces into the skirmish at the North Bridge. There have been several additions to the structure in the 19th and 20th century. The structure is currently used as an employee residence and for interpretation. One major problem with this structure is the absence of a gutter/downspout system. The original system was covered over during re-roofing work and the park service has continued this approach. The park will install a gutter that will be compatible with the identified time period of this structure as prescribed by a CRC historic architect. The building condition is fair and the impacts to the structure are low.

Meriam House (1730) - This site is considered the scene of the start of the "running battle", many historians consider the Meriam House and the action at Meriam's Corner the real "shot heard round the world". The house has been altered little since 1730. It is presently mothballed and needs funding for structural stabilization and exterior restoration. The building is slated as an interpretive center. The structures' condition is poor and the impacts to the structure are severe.

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Hartwell Tavern (1733) - This building was part of the historic scene and functioned as a tavern between 1756 and 1787 along the Battle Road. The integrity of the buildings' unusual architecture configuration is also an important aspect of this period. This structure is used as a key interpretive site within the park. It underwent a major restoration in 1983 and is in good condition with low impact potential.

The William Smith House (1700) - The house was the home of William Smith, captain of the Lincoln Minute Man Company and brother of Abigail Adams. Although the building has had several structural modifications this building retained its architectural significance and 18th century character with its' rare plaster-covered cornice. This structure is a key interpretive site within the park. It underwent a major restoration in 1985 and is listed in good condition with low impact severity.

Of these 29 structures, only one, The Wayside, has been nominated to the National Register. The remaining structures are on the National Register under a park wide blanket, but await individual nomination. There are presently 23 structures that are on the List of Classified Structures within the park. The remaining six await listing.

The historic structures are utilized for a variety of administrative, interpretive, maintenance, curatorial and residential functions. Six historic structures are used for employee residences, one is utilized for interpretive/residence, seven are under life estate or term reservation, two are utilized by maintenance, six are used for interpretive functions, one is utilized for administration/interpretation, three are utilized for curatorial, one is utilized for maintenance/curatorial and three historic structures are presently mothballed awaiting further funding.

Of the 29 historic structures within the park 22 buildings are currently under the care and preservation of the parks maintenance staff. Currently, the park has two full time woodcrafters, one full time painter, one part time painter helper, one maintenance mechanic, one buildings and utilities foreman and one part time maintenance worker/custodian, for a total of 6.2 FTE devoted primarily to building and preservation maintenance. With only 6.2 FTE in buildings and utilities maintenance, plus limited base funding, a comprehensive preventive maintenance program cannot be maintained. It should be noted as the life estate and term reservations expire the park will acquire these seven historic structures in varying states of disrepair (one other structure, The Old Manse, is presently maintained by a non-profit group). Of these 29 structures, 30%

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are in good condition, 57% are in fair condition and 10% are in poor condition, with 57% of the structures experiencing low impacts, 27% experiencing moderate impacts and 16% experiencing severe impacts. Most of these impacts are due to de-ferred maintenance as a result of inadequate staffing and funding.

### 3. Museum Collections

The museum collections at Minute Man National Historical Park consist of approximately 232,363 artifacts with a backlog of about 148,326 uncataloged items. The collections are comprised of archeology, archival and history objects. There are no ethnology, biology, paleontology or geology collections.

The archeology collection is the largest segment of the total collection. This collection has about 197,845 artifacts of which approximately 139,926 still need to be cataloged. The large backlog is the result of archeological excavations which were completed in the 1960s and 1970s when the artifacts which were recovered did not have to be cataloged at the time of excavation. Excavations completed in the 1980s have been cataloged by archaeologists involved with the projects. Within the last three years all the items added to the archeology collection have been cataloged.

Overall the archeology collection is in good condition. All objects are stored, according to current museum standards, in polyethylene bags which are grouped in acid-free boxes. The storage area in the upper squash court has a desiccant dehumidifier but has no heat or air conditioning. Temperatures during the summer are extremely high and during the winter they are very low. There are no windows in the storage area, and the fluorescent lights have filters. The area is protected by a halon fire suppression system and an intrusion detection system. The halon system will need to be replaced because of the damage halon does to the environment.

In 1994 work will begin on the restoration of the Job Brooks House so it can be used as an additional storage area. When the project is completed, the archeology collection will be moved there.

The archives collection is the second largest segment of the museum collections. It consists of approximately 23,113 artifacts of which about 6,000 need to be cataloged. No archives materials have been added to the collection within the last three years.

The major portion of the archives collection is composed of the Harriett M. Lothrop Family Papers. Harriett Lothrop was one of the authors who lived in The Wayside, the furnished historic house in the park. The collection is composed of about 11,500 items which have been cataloged and are available for the use of researchers.

The processing and cataloging of a second major archives

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collection, the Allen French Papers, is also complete. Allen French was a historian who wrote several books on the Revolutionary War, including in 1925 The Day of Concord and Lexington, a theme important to the park. The collection is available for the use of researchers. It numbers about 4,000 items.

In general the archives collection is in very good condition. The collection is housed in appropriate acid-free boxes which are stored in metal storage cabinets. The collection is kept in the lower squash court which is inadequately heated and has no air conditioning. A humidifier is used. There are no windows in the area, and the fluorescent lights are covered with filters. The space is protected by a halon fire suppression system and an intrusion detection system. The halon system will need to be replaced because of the damage halon does to the environment.

When the work on the Job Brooks House is completed, the archives and history collections will be moved to the upper squash court which is currently occupied by the archeology collection. The heating and ventilation of the upper squash court will need to be improved in order to accommodate these collections which are more sensitive to fluctuations in temperature and humidity than the archeology collection.

The history collection is composed of approximately 11,405 artifacts of which 2,400 need to be cataloged. During the last three years less than 100 history items were added to the collection, while more than 100 history items were cataloged in one year alone. The history collection in general is in good condition.

The majority of the history collection consists of the furnishings of The Wayside, the park's furnished historic house. These items remain in The Wayside year-round. The house is protected with an intrusion detection system, smoke detectors and fire alarms.

Besides the historic house furnishings, the history collection is comprised of original art used as illustrations for children's books published by the Lothrop publishing firm. Postcards, photographs and some eighteenth century objects are also part of this collection. The majority of these items are stored in the lower squash court and will be moved to the upper squash court when the Job Brooks House is completed.

At present the storage cabinets for these artifacts are inadequate. At least ten of the current cabinets are in poor condition and need to be replaced. More cabinets are needed so

the items will not be overpacked in the existing space.

The final segment of the history collection consists of furniture which is stored in two rooms at the Noah Brooks Tavern. These items will be moved to the lower squash court when the Job Brooks House is completed. To fit these pieces into the lower squash court, shelving which will hold furniture will need to be purchased. The heating and ventilation of the lower squash court will also need to be improved.

#### 4. Cultural Landscapes

Cultural landscapes constitute significant components of each park unit. The principal period of significance is the Revolutionary War (circa 1775) with other sites based on later historic settings and time periods. The majority of the park is comprised of historic vernacular landscapes followed by historic sites and one historic designed landscape. Additionally, there are significant historic landscapes outside the boundary which are part of the park's viewsheds and which contribute significantly to the historic scene. Conversely, some areas within the viewshed contain major commuter routes, housing developments, airport runways and office buildings.

Battle Road Unit: A Cultural Landscape Plan for the Battle Road unit was completed in 1993 with the main purpose being to define a clear direction for preservation and interpretation of the landscape. The wider purpose of the study was to provide an opportunity for people to learn not only about the Revolutionary period, but in addition, the rich cultural landscape and natural history and how these three forces influence each other.

The Battle Road, scene of the running battle between the British and the Colonialist, begins at Meriam's Corner in Concord and travels 4.7 miles, generally along Route 2A, to Fiske Hill in Lexington. One section in Lincoln has been restored to its original appearance with a 16" protective covering of dirt and clay. The remaining Battle Road is protected by the dirt and asphalt covering of modern roads. The landscape along the road is comprised of active agricultural land, fallow fields, stonewalls, hedge rolls, farm roads, twenty-two historic farmhouses and barns, wetlands, young to mature forest, and 17 modern structures. The modern structures will be removed upon termination of use and occupancy reservations (life and term). The level of impact severity to this landscape is estimated as unknown for 10%, low for 35%, moderate for 40% and severe for 15%.

This richly diverse and historic landscape contains farm fields which have been in continuous agricultural use since the time of the Revolution. Fields with their shapes imprinted into the landscape by rock walls have been in the same configuration for two centuries. The future potential of this landscape is to be a mecca for cultural, recreational and historical opportunities. But for the full capability of this to be realized it is crucial that access be developed which allows park visitors to experience the landscape in a manner that does not disturb it. An original idea when creating the park was to relocate Route 2A and turn the Battle Road into a tour road. However, due to intense local

opposition this idea was dropped ( July, 1991, approved GMP).

Another major issue is treatment of this cultural landscape. One manner in which the CLP recommends to achieve this is to re-introduce agriculture to 300 to 400 acres of land. The issues involved in implementing program include NEPA compliance, IPM, overseeing best management practices, soil conservation, wetland compliance, wildlife habitat monitoring, administering and monitoring lease arrangements and providing farmer association assistance. Due to lack of funding and staff the park is presently doing a minimally adequate job with its farm leasing program. For future expansion a minimum of one FTE and funding for a Resource Management Specialist, 401 Series, is needed.

North Bridge Unit: The walkway to the North Bridge has taken on a commemorative appearance due to the planting of trees and construction of monuments and stone walls, over a period of time, with the expressed purpose of honoring the site. It is important to note that while the good aesthetics of this cultural/historic landscape do not necessarily reflect an accurate historical scene they do represent the manner in which a significant site has been honored over time. There is a severe erosion control problem along this path that has exposed tree roots systems and trenching along the path. This has become a threat to visitor safety and impacts the health of the pathway trees. Funding for an engineering study is needed to address this impact.

The actual period of significance in the North Bridge unit is best represented by Buttrick Hillside, leased out for haying, and Flint Field, leased out for pasturing livestock. The Buttrick Gardens which make up the grounds near the Buttrick Mansion are generally maintained consistent with the original landscape design for that area. Built in 1911, The Buttrick's new home included some formal plantings. The more elaborate gardens including the river and bridge overlooks with their paths and plantings, evolved during the 1920's. The garden possessed many unique plantings and received widespread national recognition. When visitors walk in the Buttrick gardens they experience a well maintained and aesthetically pleasing landscape, however, it is not one which correctly reflects the period. The park has one gardener and a helper.

The Wayside Unit: The grounds around this historic structure contained a terraced fruit orchard as well as a variety of ground cover. The present landscape possesses several modern shrubs, hedging which is in need of rejuvenation, and the terraced north side which is heavily weeded. The condition assessment is fair to poor with a moderate impact potential. Funding for a more extensive landscape report needs to be developed and implemented.

Stone Walls - There are approximately 30 miles of stone wall within the park. These stone walls have been a significant landscape feature since the 17th century, helping to define fields and pasture and land ownership, as well as providing cover for the "running battle" in 1775. The overall condition assessment of the walls is poor, with many of the walls lacking a defined structural and stable configuration. The impacts to these walls are severe due to theft of the stones by the public due to the lack of a defined wall configuration and adequate protection patrols. Funding is needed to provide additional security and restore the stone walls as part of the landscape rehabilitation.

Management Recommendations:

The Cultural Landscape Inventory (CLI) forms are used to identify the character defining features of a landscape. The landscape is classified into eleven "characteristics" for "reading" a rural landscape and for understanding the natural and cultural forces that shaped it (Bulletin #30, Guidelines for Evaluating and Documenting Rural Historic Landscapes, McClelland, 1991, pg. 3) The following character-defining features or characteristics are inventoried: spatial organization, response to natural features, land use, cultural traditions, views and vistas (historic), circulation, vegetation, cluster arrangement, structures, archaeological sites and small scale features. Applying these evaluation factors to cultural landscapes is the process for determining an area's eligibility for National Register listing. It is recommended that each of the below listed landscapes be evaluated and that the above method of evaluation be used:

1. The North Bridge Area
2. The Wayside
3. Meriam's Corner
4. Minot Farm
5. Jones/Stowe Farm
6. Brooks Farm
7. Bloody Angles/Hartwell Farm & Tavern
8. Nelson Farm
9. Fiske Hill

It is possible that one or more of the above sites will have sufficient significance and integrity for listing in the National Register of Historic Places.

5. Ethnographic Resources

Minute Man National Historical Park has no known ethnographic resources.

E. Cultural Context/Theme

The park represents the following themes as listed in History and Prehistory in the National Park System and the National Historic Landmarks Program (1987).

Theme IV. The American Revolution

C. War in the North

Property Types: Historic structures, stone walls, cultural landscapes, roads, archeological sites and collections and archives collections.

Theme XIX. Literature

B. Fiction

1. Novel

Property Types: Historic house with furnishings and archives collection.

### III. NATURAL RESOURCE MANAGEMENT PROGRAM

#### A. Overview of Current Program and Needs

The great diversity of valuable natural resources at Minute Man National Historical Park combined with the numerous cultural resources, require a dynamic and flexible management program. Many of the park's natural resources are cultural resources as well: orchards, cultural landscapes, farm sites and hedge rolls are examples. The lack of baseline inventory data and information on species' presence or absence is still a major concern, although substantial work has been done to address this problem. The impact on adjacent land use and development concurrent with rapid population growth in the North Atlantic Region are major threats to the biological and historical integrity of the park.

Natural resource management goals, prioritized within resource categories, are listed below:

##### 1. Vegetation

- To maintain and preserve cultural landscapes, active agricultural through leasing, and historically significant orchard trees and associated plant varieties.
- To re-introduce agriculture as recommended in the CPL and to support the same through programs which promote sustained yield, best management practices and IPM
- To further identify all threatened, endangered, or rare species present and to develop specific management and action plans to protect them.
- To eliminate or reduce non-native species that pose a threat to native species or cultural areas under an approved Action Plan, Integrated Pest Management program or the Approved Fire Management Plan.
- To continue collection of baseline data on flora through in-house research and cooperative agreements with universities.

##### 2. Animal Species

- To identify all threatened, endangered, or rare species present and to develop specific management and action plans to protect them.
- To eliminate or reduce non-native species that pose a threat to

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native species or cultural areas under an approved Action Plan, Integrated Pest Management program or Fire Management Plan.

- To continue collection of baseline data on fauna through in-house research and cooperative agreements with universities.

### 3. Aquatic Resources

- To develop a continuous resources monitoring program to detect adverse impacts at an early state.

- To comply with NPS Floodplain and Wetland Management Guidelines.

### 4. Air Resources

- To maintain current information on air quality from State and Federal monitoring stations in the area.

### 5. Geologic Resources

- To monitor agricultural practices on leased fields
- To develop a comprehensive protection program for rockwalls.

### 6. Aesthetic Resources

- To classify, analyze and evaluate the land cover of newly acquired park land and incorporate into park's GIS database system.
- To establish photographic and video records of significant viewsheds and adjacent land use patterns.

### 7. All Resources

- Establish funding and FTE for a full-time Resource Management Specialist.
- To work with the Towns of Concord, Lexington and Lincoln , private landowners, and adjacent communities to reduce or mitigate any negative impacts of future development on the park in accordance with the Land Protection Plan.
- To establish and maintain working relationships between the park and other agencies, organizations, and individuals involved in natural resource research or management.
- To develop a trail and/or bikeway system which avoids and/or

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minimizes impact to wetlands and other sensitive ecological areas and habitats.

To achieve these goals will require personnel and support. Minute Man National Historical Park established the position of a Natural Resource Management Specialist (GS-401-09) in its Organizational Chart in FY 89. However, the position had not yet been filled as of FY 94. No other position of this type exists in the park. Presently duties that would ordinarily be performed by the RMS are being performed by the Chief Ranger and his staff. This includes duties such as coordination of research and monitoring projects related to natural resources. Also, visitor protection rangers have resource management as a collateral duty. Several projects involved include boundary surveying, wildlife inventory, IPM, assisting and/or overseeing field research/science projects, and exotic plant control. Park Rangers holding law enforcement commissions are responsible for enforcement of resource-related laws and regulations. The park will continue to allow and encourage employees the opportunity to participate in natural resource management activities.

The addition of a seasonal GS-5 level resource management assistant will be requested, but no additional NPS personnel support is anticipated. The park has provided support for personnel, supplies, and equipment for natural resource management activities.

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b. List of Project Statements - Natural

FAUNA

MIMA-N-007.000 DEVELOP COMPREHENSIVE INTEGRATED PEST MGMT PLAN  
MIMA-N-010.000 PARKWIDE BIOLOGICAL EVALUATION AND MAPPING  
MIMA-N-018.000 BASE PROGRAM, NATURAL RESOURCE I & M  
MIMA-N-019.000 BASE PROGRAM, IPM PROGRAM FOR STRUCTURES/FARMING  
MIMA-N-025.000 MANAGE RARE INVERTEBRATES/VERTEBRATES

FLORA

MIMA-N-026.000 DEFENSIBLE FIRE ZONES  
MIMA-N-027.000 DEVELOP PARKWIDE TREE MANAGEMENT PLAN  
MIMA-N-001.000 CONDUCT MANAGEMENT IGNITED RESEARCH BURNS  
MIMA-N-004.000 DEVELOP PLAN TO CONTROL POISON IVY  
MIMA-N-008.000 DEVELOP ACTION PLAN TO CONTROL PURPLE LOOSESTRIFE  
MIMA-N-011.000 DEVELOP ORCHARD MANAGEMENT PLAN  
MIMA-N-014.000 DIGITIZE FUELS MODEL MAPS  
MIMA-N-024.000 DEVELOP VISTA MANAGEMENT PLAN

WATER

MIMA-N-012.000 ESTABLISH AQUATIC RESOURCE MONITORING PROGRAM  
MIMA-N-013.000 WETLAND DELINEATION - ELM BROOK MARSH  
MIMA-N-028.000 MONITOR WETLAND PLANT SPECIES

GEOLOGY

MIMA-N-023.000 MONITOR AGRICULTURAL PRACTICES ON LEASED FIELDS

OTHER

MIMA-N-002.000 BOUNDARY CENSUS TO DETERMINE RE-SURVEY NEEDS  
MIMA-N-005.000 DEVELOP A TRAIL CONCEPT PLAN  
MIMA-N-006.000 UTILIZE GEOGRAPHIC INFORMATION SYSTEM  
MIMA-N-009.000 UPDATE AERIAL PHOTOGRAPHS  
MIMA-N-003.000 PROGRAM MANAGEMENT AND ADMINISTRATION (NAT RES)  
MIMA-N-015.000 BASE PROGRAM, NATURAL RESOURCES PROTECTION  
MIMA-N-016.000 BASE PROGRAM, NATURAL RESOURCES EDUCATION  
MIMA-N-017.000 BASE PROGRAM, NATURAL RESOURCES MITIGATION  
MIMA-N-020.000 BASE PROGRAM, DETER ILLEGAL HAZ WASTE DUMPING  
MIMA-N-021.000 PARK HAZ WASTE MINIMIZATION PROGRAM  
MIMA-N-022.000 401 ASSISTANT FOR MAJOR PARK DEVELOPMENT PROJECT  
MIMA-N-029.000 EVALUATE CULTURAL LANDSCAPES FOR NATIONAL REG.  
MIMA-N-030.000 ADD LAW ENFORCEMENT POSITIONS  
MIMA-N-031.000 LIAISON TO CONSERVATION COMMISSIONS & COMMUNITIES

#### IV. CULTURAL RESOURCE MANAGEMENT PROGRAM

##### A. Overview of Current Program and Needs

###### 1. Sites

The archeological sites at Minute Man NHP have been extensively identified and researched for more than thirty years. The major need at present is to protect the sites from ARPA violations.

###### 2. Structures

The maintenance division (Buildings and Utilities) is responsible for planning and implementing a preventive maintenance program that addresses daily and cyclic maintenance for all historic and non-historic structures. In some circumstances, work is completed by contract or the North Atlantic Regional Preservation Crew.

Historic structures are used for a variety of purposes including interpretation, public contact stations, administration, quarters and maintenance. Certain primary historic structures have replica or like furnishing and are on public exhibit in order to fulfill the interpretive mission of each site. Major issues that are threats to the historic structures are roof replacement for five structures, extensive stabilization/restoration of five structures, hazardous material abatement for six structures and utility upgrades for four structures. The park has identified 6.2 million dollars in deferred maintenance due to budget and personnel shortfall. Future strategies are to continue to meet cyclic and daily needs through base and Repair/Rehab funding. Structures that need major restoration, resulting from the shortfall of maintenance base funding and personnel, will be mothballed and submitted for national construction funds when available.

The Integrated Pest Management program is coordinated by the Supervisory Park Ranger, GS-09, in the division of Resource Management and Visitor Protection. The IPM Coordinator works with Cultural Resources and Maintenance to develop monitoring and mitigation programs.

Fire detection and building security is coordinated by the Division RM & VP. Presently there are 31 alarm systems with six additional systems being designed. Because the single most catastrophic threat to the historic structures is fire it is critical that efficient and effective fire detection systems be

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in place and operating in all historic structures. In 1994 there will be 21 structures with supervised alarm systems, in three towns, monitored by six different stations.

Because of the number of alarm systems and the expanse of their locations there are safety and work load problems associated with managing the alarm systems. There is no maintenance contract for alarm repair and service. The park does not have 24 hour protection coverage for alarm response. And it is complex and confusing coordinating alarm response with three police departments, three fire departments and one alarm company that monitor park alarm systems. In order to meet the present and future alarm management needs the park will need an additional two FTEs for protection positions.

### 3. Museum Collections

The current program for the museum collections includes caring for the furnishings of The Wayside and the artifacts in storage and on exhibit, monitoring the temperature, humidity, light and ultraviolet levels in eleven storage and exhibit areas, accessioning and cataloging newly received items, as well as reducing the backlog of uncataloged objects, and, finally, utilizing the artifacts in exhibits and for research.

When work on the Job Brooks House is completed, it will allow for the expansion of the collection storage area. Both the upper and lower squash court will need new heating and ventilation systems so that the archival and history collections will be in an acceptable environment. Storage equipment which has deteriorated will have to be replaced. Additional shelving and cabinets will need to be purchased to accommodate the collection in the new storage area. Based on the Collection Condition Survey, a program for the conservation of the collections can be formulated.

Besides preserving the collection, the large backlog of archeology and archival items must be reduced in order to provide better accountability and therefore better security for the collections. The collections can then be more fully utilized for exhibits. As the collections are used more extensively in exhibits which are currently in development, the environments of the exhibit areas must be improved so the artifacts will not deteriorate.

A Collections Management Plan was developed in 1993.

#### 4. Cultural Landscapes

Cultural Landscapes are extremely important components of each park unit. As outlined in the General Management Plan, the treatment and restoration of the park's landscape to approximate the early revolutionary era appearance of April, 1775, is the primary natural/cultural goal for resource management. The principal method for achieving this, as recommended in the Cultural Landscape Management Plan (1993), is through agricultural reintroduction. This management approach guides the "Project Statements" as well as their relative priority. Current natural resource program activities are undertaken to achieve this goal.

A landscape issue important to the park's goal of managing this historic landscape is the need for preserving the wide diversity of native and introduced plants which relate directly to the principal themes of the park (the opening of the American Revolution, the cultural landscapes of that era and the 18th-Century literary figures). Many of these plants are rare, unique in variety and/or character, have direct association to important historic figures and events, and are critical character defining features within Minute Man's landscape. Before these significant historic plants decline and die, genetically identical, cloned replacements or species correct duplicates must be planted. Without immediate action, plants would eventually be lost. Although a number of significant, naturally occurring plant species, could be captured from nearby land outside the park it is more prudent to clone replacements from specimens from within the park now, in order to maintain consistency for being genetically identical.

Presently eight agricultural leases, totalling approximately 150 acres, are administered by the RM & VP division. Another 50 acres are farmed under life occupancy reservations. The variety of agriculture includes haying, grazing, truck farming and growing sweet corn. All Pesticide Use Proposals and Use Logs are coordinated through the park's IPM Coordinator. The CLP has identified 300 to 400 acres of additional land which can be put back into agricultural use. Present staff levels do not allow for doing an adequate level of agricultural management and monitoring. Two FTEs and appropriate base funding for RM & VP are needed for a Natural Resource Management Specialist and Biological Technician. These additional positions will enable the park to reach the present work load demands and enable the implementation of the agricultural re-introduction program. Lease fees for agricultural land are used for program support and will increase as the number of leased acres increase.

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Internal maintenance of approximately 80 acres of Cultural Landscapes is accomplished through the grounds crew. Employees of this group perform mowing, gardening, tree maintenance, tree replacement and road and trail clearing. There is currently a shortfall of 8 FTE's and appropriate base funding to carry out the cyclic maintenance necessary to maintain the fields and landscape. This results in a loss of field and landscape integrity due to overgrowth and unchecked plant succession.

The viewsheds of Minute Man National Historical Park are significant enough to warrant special protection efforts. Computer software has been obtain which will make it possible to perform view shed analysis for the entire Concord Quadrangle where the park is located.

The park is actively involved in local land use decisions that could impact viewsheds or otherwise have a negative impact on cultural landscapes.

B. List of Project Statements - Cultural

Museum Collections

|                |                                              |
|----------------|----------------------------------------------|
| MIMA-C-001.000 | CATALOG BACKLOG OF MUSEUM COLLECTION         |
| MIMA-C-002.000 | PREPARE COLLECTION CONDITION SURVEY          |
| MIMA-C-003.000 | CONDUCT A CONDITION SURVEY OF FURNITURE      |
| MIMA-C-004.000 | UPGRADE MUSEUM COLLECTION STORAGE EQUIPMENT  |
| MIMA-C-005.000 | PROVIDE CONSERVATION TREATMENT FOR ARTIFACTS |
| MIMA-C-006.000 | PREPARE COLLECTION MANAGEMENT PLAN           |
| MIMA-C-007.000 | CONDUCT A CONDITION SURVEY OF TEXTILES       |

Structures

|                |                                                   |
|----------------|---------------------------------------------------|
| MIMA-C-010.000 | UPGRADE ELECTRICAL SERVICE NORTH BRIDGE VIS. CEN. |
| MIMA-C-011.000 | INSTALL NEW ROOF - CARETAKERS HOUSE/MAINT BARN    |
| MIMA-C-012.000 | STAB FOUND/STRUCT WALL-REPL HEAT PLANT PERRY HSE  |
| MIMA-C-013.000 | STABILIZATION/REHAB - MERIAM HOUSE AND GROUNDS    |
| MIMA-C-014.000 | INTERIOR/EXTERIOR REPAIR - NOAH BROOKS TAVERN     |
| MIMA-C-015.000 | STRUCTURAL REPAIRS - SAMUAL BROOKE HOUSE          |
| MIMA-C-017.000 | STRUCTURAL REPAIRS - DANIEL TAYLOR HOUSE          |
| MIMA-C-021.000 | UPGRADE FACILITIES & STRUCTURE WAYSIDE BARN BRVC  |
| MIMA-C-028.000 | UPGRADE ELECTRONIC SECURITY SYSTEM AT NBVC        |
| MIMA-C-029.000 | UPGRADE FIRE PROTECTION SYSTEM IN THE WAYSIDE     |
| MIMA-C-016.000 | UPGRADE HEATING/COOLING SYSTEM - SQUASH COURT     |
| MIMA-C-030.000 | REHABILITATION OF THE JOB BROOKS HOUSE            |
| MIMA-C-034.000 | UPGRADE INTRUSION ALARM SYSTEM BUTTRICK BARN      |
| MIMA-C-036.000 | REPLACE HALON SUPPRESSION SYSTEM IN SQUASH COURT  |

Cultural Landscapes

|                |                                                   |
|----------------|---------------------------------------------------|
| MIMA-C-018.000 | HISTORIC GROUNDS REPORT - NORTH BRIDGE AREA       |
| MIMA-C-019.000 | EROSION CONTROL - NORTH BRIDGE WALKWAY            |
| MIMA-C-020.000 | PREPARE & IMPLEMENT DRAINAGE PLAN WAYSIDE GROUNDS |
| MIMA-C-023.000 | CONDUCT ROCKWALL STUDY-STABILIZE WALLS PARKWIDE   |
| MIMA-C-024.000 | DEVELOP & IMPLEMENT CULT LANDSCAPE PLAN WAYSIDE   |
| MIMA-C-025.000 | DEVELOP/IMPLEMENT CULT.RES.PLAN-BUT.MANSION GAR   |
| MIMA-C-026.000 | DEVELOP CULTURAL LANDSCAPE MANAGEMENT PLAN        |
| MIMA-C-038.000 | MAINTENANCE OF RESTORED BATTLE ROAD               |
| MIMA-C-039.000 | RESTORE BATTLE ROAD                               |
| MIMA-C-040.000 | SIGNIFICANT PLANT MATERIAL PRES/REPLACEMENT       |

Minute Man NHP  
Resource Management Plan

Multi-resource Projects

MIMA-C-008.000 DETERMINE AIR QUALITY EFFECTS ON CULTURAL RES  
MIMA-C-022.000 COMPLETE HSR/HISTORIC GROUNDS REPORT - 23 STRUC.  
MIMA-C-031.000 BASE PROGRAM, CULTURAL RESOURCE DOCUMENTATION  
MIMA-C-032.000 BASE PROGRAM, CULTURAL RESOURCE ADMINISTRATION  
MIMA-C-033.000 BASE PROGRAM, CULTURAL RESOURCE PROTECTION  
MIMA-C-035.000 DEVELOP DISASTER PLAN  
MIMA-C-037.000 MAINTENANCE SUPPORT- HIST. STRUCTURES/LANDSCAPE

Minute Man NHP  
Resource Management Plan

V. CURRENT FISCAL YEAR PERSONNEL AND FUNDING COMMITMENTS

Table 1: NPS Resource Personnel

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TABLE 1  
NPS RESOURCE PERSONNEL  
(current year only)

FY: 94  
PARK: MIMA  
REGION: NARO

| TYPE OF NPS EMPLOYEE            | FTEs OF RESOURCES WORK |          |       |
|---------------------------------|------------------------|----------|-------|
|                                 | Natural                | Cultural | Total |
| Research Scientists             | 0.0                    | 0.0      | 0.0   |
| Resources Specialists           | 0.0                    | 2.0      | 2.0   |
| 025 Park Rangers Res Mgmt       | 1.0                    | 0.0      | 1.0   |
| 025 Park Rangers Res Prot       | 1.0                    | 0.0      | 1.0   |
| 025 Park Rangers Res Interp     | 0.0                    | 0.0      | 0.0   |
| Maintenance Personnel           | 0.5                    | 3.0      | 3.5   |
| Total of RES Personnel          | 2.5                    | 5.0      | 7.5   |
| TOTAL PARK FTE: 35.0<br>PERCENT | 7.1%                   | 14.3%    | 21.4% |

End of data

Minute Man NHP  
Resource Management Plan

Table 2: Resource Funding Levels

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TABLE 2  
NATURAL AND CULTURAL  
CURRENT YEAR FUNDING  
(\$ in thousands - by activity type)

Page: 0001  
FY: 94  
PARK: MIMA  
REGION: NARO

| FUNDING<br>SOURCE | TOTAL  | RES    | MIT   | MON   | PRO   | INT  | ADM  |
|-------------------|--------|--------|-------|-------|-------|------|------|
| RMRR              | 65.00  | 25.00  | 40.00 | 0.00  | 0.00  | 0.00 | 0.00 |
| PSPA              | 296.50 | 295.00 | 0.00  | 1.50  | 0.00  | 0.00 | 0.00 |
| PCR1              | 97.62  | 29.20  | 30.00 | 29.00 | 9.42  | 0.00 | 0.00 |
| PNR1              | 22.50  | 6.00   | 2.00  | 10.50 | 4.00  | 0.00 | 0.00 |
| TOTAL             | 481.62 | 355.20 | 72.00 | 41.00 | 13.42 | 0.00 | 0.00 |

End of data

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PROGRAMMING SHEET 1  
NATURAL  
CURRENT YEAR FUNDED ACTIVITIES  
(\$ in thousands)

Page: 0001  
FY: 94  
PARK: NIMA  
REGION: NARO

| PROJECT<br>NUMBER  | PROJECT TITLE                                            | PKG<br>NUM | CULT<br>RES<br>TYPE | SYSTEM-<br>WIDE<br>ISSUE | FUNDING<br>SOURCE           | ACT<br>TYP | CURRENT YEAR<br>1994<br>\$\$ FTE |     | OUTYEAR 1<br>1995<br>\$\$ FTE |     | OUTYEAR 2<br>1996<br>\$\$ FTE |     | OUTYEAR 3<br>1997<br>\$\$ FTE |     | TOTAL<br>\$\$ FTE |     |
|--------------------|----------------------------------------------------------|------------|---------------------|--------------------------|-----------------------------|------------|----------------------------------|-----|-------------------------------|-----|-------------------------------|-----|-------------------------------|-----|-------------------|-----|
| 005.000            | DEVELOP A TRAIL<br>CONCEPT PLAN                          |            |                     |                          | N06 N18 FED-OTHER RES       |            | 300.00                           | 0.0 | 0.0                           | 0.0 | 0.0                           | 0.0 | 0.0                           | 0.0 | 300.00            | 0.0 |
| 015.000            | BASE PROGRAM,<br>NATURAL<br>RESOURCES<br>PROTECTION      |            |                     |                          | N02 N06 PKBASE-NR RES       |            | 6.00                             | 0.2 | 6.00                          | 0.2 | 6.00                          | 0.2 | 6.00                          | 0.2 | 24.00             | 0.8 |
| 016.000            | BASE PROGRAM,<br>NATURAL<br>RESOURCES<br>EDUCATION       |            |                     |                          | N02 N22 PKBASE-NR PRO       |            | 2.00                             | 0.1 | 2.00                          | 0.1 | 2.00                          | 0.1 | 2.00                          | 0.1 | 8.00              | 0.4 |
| 017.000            | BASE PROGRAM,<br>NATURAL<br>RESOURCES<br>MITIGATION      |            |                     |                          | N06 N19 PKBASE-NR MON       |            | 2.00                             | 0.1 | 2.00                          | 0.1 | 2.00                          | 0.1 | 2.00                          | 0.1 | 8.00              | 0.4 |
| 018.000            | BASE PROGRAM,<br>NATURAL RESOURCE<br>I & M               |            |                     |                          | N08 N17 PKBASE-NR MON       |            | 4.50                             | 0.1 | 4.50                          | 0.1 | 4.50                          | 0.1 | 4.50                          | 0.1 | 18.00             | 0.4 |
| 019.000            | BASE PROGRAM,<br>IPM PROGRAM FOR<br>STRUCTURES/FARMING   |            |                     |                          | N01 N04 PKBASE-NR MON       |            | 4.00                             | 0.2 | 4.00                          | 0.2 | 4.00                          | 0.2 | 4.00                          | 0.2 | 16.00             | 0.8 |
|                    |                                                          |            |                     |                          | PKBASE-NR MIT               |            | 2.00                             | 0.1 | 2.00                          | 0.1 | 2.00                          | 0.1 | 2.00                          | 0.1 | 8.00              | 0.4 |
|                    |                                                          |            |                     |                          | Subtotal                    |            | 6.00                             | 0.3 | 6.00                          | 0.3 | 6.00                          | 0.3 | 6.00                          | 0.3 | 24.00             | 1.2 |
| 020.000            | BASE PROGRAM,<br>DETER ILLEGAL<br>HAZ WASTE DUMPING      |            |                     |                          | COMB N24 PKBASE-NR PRO      |            | 2.00                             | 0.1 | 2.00                          | 0.1 | 2.00                          | 0.1 | 2.00                          | 0.1 | 8.00              | 0.4 |
| 023.000            | MONITOR<br>AGRICULTURAL<br>PRACTICES OF<br>LEASED FIELDS |            |                     |                          | SITE N08 C01 SPECIAL-\$ MON |            | 1.50                             | 0.1 | 1.50                          | 0.1 | 0.0                           | 0.0 | 0.0                           | 0.0 | 3.00              | 0.2 |
|                    |                                                          |            |                     |                          | PKBASE-NR MON               |            | 0.0                              | 0.0 | 0.0                           | 0.0 | 1.50                          | 0.1 | 1.50                          | 0.1 | 3.00              | 0.2 |
|                    |                                                          |            |                     |                          | Subtotal                    |            | 1.50                             | 0.1 | 1.50                          | 0.1 | 1.50                          | 0.1 | 1.50                          | 0.1 | 6.00              | 0.4 |
| 8 projects printed |                                                          |            |                     |                          |                             |            |                                  |     |                               |     |                               |     |                               |     |                   |     |
| Grand Total        |                                                          |            |                     |                          |                             |            | 324.00                           | 1.0 | 24.00                         | 1.0 | 24.00                         | 1.0 | 24.00                         | 1.0 | 396.00            | 4.0 |

End of data

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PROGRAMMING SHEET 1  
CULTURAL  
CURRENT YEAR FUNDED ACTIVITIES  
(\$ in thousands)

Page: 0001  
FY: 94  
PARK: MINA  
REGION: NARO

| PROJECT<br>NUMBER  | PROJECT TITLE                                                  | PKG<br>NUM | CULT<br>RES<br>TYPE | SYSTEM-<br>WIDE<br>ISSUE | FUNDING<br>SOURCE | ACT<br>TYP     | CURRENT YEAR<br>1994 |     | OUTYEAR 1<br>1995 |     | OUTYEAR 2<br>1996 |     | OUTYEAR 3<br>1997 |     | TOTAL  |      |
|--------------------|----------------------------------------------------------------|------------|---------------------|--------------------------|-------------------|----------------|----------------------|-----|-------------------|-----|-------------------|-----|-------------------|-----|--------|------|
|                    |                                                                |            |                     |                          |                   |                | \$\$                 | FTE | \$\$              | FTE | \$\$              | FTE | \$\$              | FTE | \$\$   | FTE  |
| 010.000            | UPGRADE<br>ELECTRICAL<br>SERVICE - NORTH<br>BRIDGE VIS. CEN.   |            | STRC                | C13                      | C26               | REP-REHAB RES  | 25.00                | 0.0 | 0.0               | 0.0 | 0.0               | 0.0 | 0.0               | 0.0 | 25.00  | 0.0  |
| 012.000            | STAB<br>FOUND/STRUCT<br>WALL-REPL HEAT<br>PLANT - PERRY<br>HSE |            | STRC                | C13                      |                   | REP-REHAB MIT  | 40.00                | 0.0 | 0.0               | 0.0 | 0.0               | 0.0 | 0.0               | 0.0 | 40.00  | 0.0  |
| 013.000            | STABILIZATION/RE<br>HAB - MERRIAM<br>HOUSE AND<br>GROUNDS      |            | SITE                | C13                      | C05               | SPECIAL-\$ RES | 295.00               | 0.0 | 0.0               | 0.0 | 0.0               | 0.0 | 0.0               | 0.0 | 295.00 | 0.0  |
| 028.000            | UPGRADE<br>ELECTRONIC<br>SECURITY SYSTEM<br>AT NBVC            |            | COMB                | C20                      |                   | NON-NPS-O PRO  | 40.00                | 0.0 | 0.0               | 0.0 | 0.0               | 0.0 | 0.0               | 0.0 | 40.00  | 0.0  |
| 031.000            | BASE PROGRAM,<br>CULTURAL<br>RESOURCE<br>DOCUMENTATION         |            | COMB                | C01                      | C02               | PKBASE-CR RES  | 29.20                | 1.0 | 29.20             | 1.0 | 29.20             | 1.0 | 29.20             | 1.0 | 116.80 | 4.0  |
| 032.000            | BASE PROGRAM,<br>CULTURAL<br>RESOURCE<br>ADMINISTRATION        |            | COMB                | C12                      | C17               | PKBASE-CR MON  | 29.00                | 1.0 | 29.00             | 1.0 | 29.00             | 1.0 | 29.00             | 1.0 | 116.00 | 4.0  |
|                    |                                                                |            |                     |                          |                   | PKBASE-CR MIT  | 30.00                | 1.0 | 30.00             | 1.0 | 30.00             | 1.0 | 30.00             | 1.0 | 120.00 | 4.0  |
|                    |                                                                |            |                     |                          |                   | Subtotal       | 59.00                | 2.0 | 59.00             | 2.0 | 59.00             | 2.0 | 59.00             | 2.0 | 236.00 | 8.0  |
| 033.000            | BASE PROGRAM,<br>CULTURAL<br>RESOURCE<br>PROTECTION            |            | COMB                | C12                      | C17               | PKBASE-CR PRO  | 9.42                 | 0.2 | 9.42              | 0.2 | 9.42              | 0.2 | 9.42              | 0.2 | 37.68  | 0.8  |
| 7 projects printed |                                                                |            |                     |                          |                   |                |                      |     |                   |     |                   |     |                   |     |        |      |
| Grand Total        |                                                                |            |                     |                          |                   |                | 497.62               | 3.2 | 97.62             | 3.2 | 97.62             | 3.2 | 97.62             | 3.2 | 790.48 | 12.8 |

End of data

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PROGRAMMING SHEET 2  
NATURAL  
UNFUNDED ACTIVITIES  
(\$ in thousands)

Page: 0001  
FY: 94  
PARK: MIMA  
REGION: NARO

| PK  | PROJECT | PROJECT TITL                                                    | PKG    | CULT | SYSTEM- | FUNDING   | ACT | STARTING YEAR | OUTYEAR 1 | OUTYEAR 2 | OUTYEAR 3 | TOTAL     |
|-----|---------|-----------------------------------------------------------------|--------|------|---------|-----------|-----|---------------|-----------|-----------|-----------|-----------|
| PRI | NUMBER  |                                                                 | NUM    | RES  | WIDE    | SOURCE    | TYP |               |           |           |           |           |
|     |         |                                                                 |        | TYPE | ISSUE   |           |     | \$\$ FTE      | \$\$ FTE  | \$\$ FTE  | \$\$ FTE  | \$\$ FTE  |
| 0   | 013.000 | WETLAND<br>STUDY - ELM<br>BROOK MARSH                           |        | COMB | N11 N12 | REG-OTHER | MIT | 5.00 0.0      | 0.0 0.0   | 0.0 0.0   | 0.0 0.0   | 5.00 0.0  |
| 0   | 015.000 | BASE<br>PROGRAM,<br>NATURAL<br>RESOURCES<br>PROTECTION          |        |      | N02 N06 | PKBASE-NR | RES | 15.00 0.5     | 15.00 0.5 | 15.00 0.5 | 15.00 0.5 | 60.00 2.0 |
| 0   | 016.000 | BASE<br>PROGRAM,<br>NATURAL<br>RESOURCES<br>EDUCATION           |        |      | N02 N22 | PKBASE-NR | PRO | 6.00 0.3      | 6.00 0.3  | 6.00 0.3  | 6.00 0.3  | 24.00 1.2 |
| 0   | 017.000 | BASE<br>PROGRAM,<br>NATURAL<br>RESOURCES<br>MITIGATION          |        |      | N06 N19 | PKBASE-NR | MIT | 12.00 0.4     | 12.00 0.4 | 12.00 0.4 | 12.00 0.4 | 48.00 1.6 |
| 0   | 018.000 | BASE<br>PROGRAM,<br>NATURAL<br>RESOURCE I &<br>M                |        |      | N08 N17 | PKBASE-NR | MON | 6.00 0.2      | 6.00 0.2  | 6.00 0.2  | 6.00 0.2  | 24.00 0.8 |
| 0   | 019.000 | BASE<br>PROGRAM, IPM<br>PROGRAM FOR<br>STRUCTURES/F<br>ARMING   |        |      | N01 N04 | PKBASE-NR | MON | 9.00 0.3      | 9.00 0.3  | 9.00 0.3  | 9.00 0.3  | 36.00 1.2 |
|     |         |                                                                 |        |      |         | PKBASE-NR | MIT | 6.00 0.2      | 6.00 0.2  | 6.00 0.2  | 6.00 0.2  | 24.00 0.8 |
|     |         |                                                                 |        |      |         | Subtotal  |     | 15.00 0.5     | 15.00 0.5 | 15.00 0.5 | 15.00 0.5 | 60.00 2.0 |
| 0   | 020.000 | BASE<br>PROGRAM,<br>DETER<br>ILLEGAL HAZ<br>WATE DUMPING        |        | COMB | N24     | PKBASE-NR | PRO | 8.00 0.3      | 8.00 0.3  | 8.00 0.3  | 8.00 0.3  | 32.00 1.2 |
| 2   | 022.000 | 401<br>ASSISTANT<br>FOR MAJOR<br>PARK<br>DEVELOPMENT<br>PROJECT | MIMA-1 | COMB | N20 C11 | REG-OTHER | RES | 20.00 0.5     | 0.0 0.0   | 0.0 0.0   | 0.0 0.0   | 20.00 0.5 |

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PROGRAMMING SHEET 2  
NATURAL  
UNFUNDED ACTIVITIES  
(\$ in thousands)

Page: 0002  
FY: 94  
PARK: NIMA  
REGION: NARO

| PK  | PROJECT | PROJECT TITL | PKG | CULT | SYSTEM-      | FUNDING       | ACT | STARTING YEAR | OUTYEAR 1 | OUTYEAR 2 | OUTYEAR 3 | TOTAL      |
|-----|---------|--------------|-----|------|--------------|---------------|-----|---------------|-----------|-----------|-----------|------------|
| PRI | NUMBER  |              | NUM | RES  | WIDE         | SOURCE        | TYP |               |           |           |           |            |
|     |         |              |     | TYPE | ISSUE        |               |     | \$\$ FTE      | \$\$ FTE  | \$\$ FTE  | \$\$ FTE  | \$\$ FTE   |
| 4   | 003.000 | PROGRAM      |     |      | N24          | PKBASE-NR ADM |     | 45.00 1.0     | 0.0 0.0   | 0.0 0.0   | 0.0 0.0   | 45.00 1.0  |
|     |         | MANAGEMENT   |     |      |              | PKBASE-NR MIT |     | 30.00 1.0     | 0.0 0.0   | 0.0 0.0   | 0.0 0.0   | 30.00 1.0  |
|     |         | AND          |     |      |              |               |     |               |           |           |           |            |
|     |         | ADMINISTRATI |     |      |              | Subtotal      |     | 75.00 2.0     | 0.00 0.0  | 0.00 0.0  | 0.00 0.0  | 75.00 2.0  |
|     |         | ON (NATURAL  |     |      |              |               |     |               |           |           |           |            |
|     |         | RES)         |     |      |              |               |     |               |           |           |           |            |
| 6   | 023.000 | MONITOR      |     |      | SITE N08 C01 | PKBASE-NR MON |     | 15.00 0.5     | 15.00 0.5 | 15.00 0.5 | 15.00 0.5 | 60.00 2.0  |
|     |         | AGRICULTURAL |     |      |              | PKBASE-NR ADM |     | 10.00 0.2     | 10.00 0.2 | 10.00 0.2 | 10.00 0.2 | 40.00 0.8  |
|     |         | PRACTICES OF |     |      |              |               |     |               |           |           |           |            |
|     |         | LEASED       |     |      |              | Subtotal      |     | 25.00 0.7     | 25.00 0.7 | 25.00 0.7 | 25.00 0.7 | 100.00 2.8 |
|     |         | FIELDS       |     |      |              |               |     |               |           |           |           |            |
| 8   | 029.000 | EVALUATE     |     |      | COMB N08 C01 | CRPP          | RES | 15.00 0.0     | 15.00 0.0 | 0.0 0.0   | 0.0 0.0   | 30.00 0.0  |
|     |         | CULTURAL     |     |      |              |               |     |               |           |           |           |            |
|     |         | LANDSCAPES   |     |      |              |               |     |               |           |           |           |            |
|     |         | FOR NATIONAL |     |      |              |               |     |               |           |           |           |            |
|     |         | REGISTER     |     |      |              |               |     |               |           |           |           |            |
| 10  | 028.000 | MONITOR      |     |      | SITE N05 C11 | PKBASE-NR MON |     | 1.00 0.0      | 1.00 0.0  | 1.00 0.0  | 1.00 0.0  | 4.00 0.0   |
|     |         | WETLAND      |     |      |              |               |     |               |           |           |           |            |
|     |         | PLANT        |     |      |              |               |     |               |           |           |           |            |
|     |         | SPECIES      |     |      |              |               |     |               |           |           |           |            |
| 12  | 025.000 | MANAGE RARE  |     |      | CULL N02     | TEMPS-NR MON  |     | 2.00 0.0      | 0.0 0.0   | 0.0 0.0   | 0.0 0.0   | 2.00 0.0   |
|     |         | INVERTEBRATE |     |      |              | TEMPS-NR RES  |     | 0.0 0.0       | 2.00 0.0  | 0.0 0.0   | 0.0 0.0   | 2.00 0.0   |
|     |         | S/VERTEBRATE |     |      |              | TEMPS-NR MIT  |     | 0.0 0.0       | 0.0 0.0   | 3.00 0.0  | 0.0 0.0   | 3.00 0.0   |
|     |         | S            |     |      |              |               |     |               |           |           |           |            |
|     |         |              |     |      |              | Subtotal      |     | 2.00 0.0      | 2.00 0.0  | 3.00 0.0  | 0.00 0.0  | 7.00 0.0   |
| 14  | 012.000 | ESTABLISH    |     |      | N20 N11      | PKBASE-NR MON |     | 2.00 0.0      | 0.0 0.0   | 0.0 0.0   | 0.0 0.0   | 2.00 0.0   |
|     |         | AQUATIC      |     |      |              |               |     |               |           |           |           |            |
|     |         | RESOURCE     |     |      |              |               |     |               |           |           |           |            |
|     |         | MONITORING   |     |      |              |               |     |               |           |           |           |            |
|     |         | PROGRAM      |     |      |              |               |     |               |           |           |           |            |
| 16  | 024.000 | DEVELOP      |     |      | SITE N08     | REG-OTHER RES |     | 15.00 0.0     | 0.0 0.0   | 0.0 0.0   | 0.0 0.0   | 15.00 0.0  |
|     |         | VISTA        |     |      |              |               |     |               |           |           |           |            |
|     |         | MANAGEMENT   |     |      |              |               |     |               |           |           |           |            |
|     |         | PLAN         |     |      |              |               |     |               |           |           |           |            |
| 18  | 027.000 | DEVELOP      |     |      | CULL C11     | RG-RM-NAT MIT |     | 25.00 0.0     | 0.0 0.0   | 0.0 0.0   | 0.0 0.0   | 25.00 0.0  |
|     |         | PARKWIDE     |     |      |              |               |     |               |           |           |           |            |
|     |         | TREE         |     |      |              |               |     |               |           |           |           |            |
|     |         | MANAGEMENT   |     |      |              |               |     |               |           |           |           |            |
|     |         | PLAN         |     |      |              |               |     |               |           |           |           |            |

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PROGRAMMING SHEET 2  
NATURAL  
UNFUNDED ACTIVITIES  
(\$ in thousands)

Page: 0003  
FY: 94  
PARK: MIMA  
REGION: NARO

| PK  | PROJECT | PROJECT TITL                                                  | PKG | CULT | SYSTEM  | FUNDING   | ACT | STARTING YEAR | OUTYEAR 1 | OUTYEAR 2 | OUTYEAR 3 | TOTAL     |
|-----|---------|---------------------------------------------------------------|-----|------|---------|-----------|-----|---------------|-----------|-----------|-----------|-----------|
| PRI | NUMBER  |                                                               | NUM | RES  | WIDE    | SOURCE    | TYP |               |           |           |           |           |
|     |         |                                                               |     | TYPE | ISSUE   |           |     | \$\$ FTE      | \$\$ FTE  | \$\$ FTE  | \$\$ FTE  | \$\$ FTE  |
| 20  | 026.000 | DEFENSIBLE<br>FIRE ZONES<br>AROUND<br>HISTORIC<br>STRUCTURES  |     | STRC | C17     | TEMPS-CR  | PRO | 6.00 0.0      | 0.0 0.0   | 0.0 0.0   | 0.0 0.0   | 6.00 0.0  |
| 22  | 007.000 | DEVELOP<br>COMPREHENSIV<br>E INTEGRATED<br>PEST MGMT<br>PLAN  | 0   | COMB | N04 N05 | PKBASE-NR | MIT | 2.00 0.1      | 0.0 0.0   | 0.0 0.0   | 0.0 0.0   | 2.00 0.1  |
| 24  | 021.000 | PARK HAZ<br>WASTE<br>MINIMIZATION<br>PROGRAM                  |     | COMB | N24     | FED-OTHER | PRO | 5.00 0.1      | 5.00 0.1  | 5.00 0.1  | 5.00 0.1  | 20.00 0.4 |
| 26  | 002.000 | BOUNDARY<br>CENSUS TO<br>DETERMINE<br>RE-SURVEY<br>NEEDS      |     | COMB | N20 N24 | TEMPS-NR  | PRO | 5.00 0.0      | 0.0 0.0   | 0.0 0.0   | 0.0 0.0   | 5.00 0.0  |
| 28  | 006.000 | UTILIZE<br>GEOGRAPHIC<br>INFORMATION<br>SYSTEM                |     | CULL | N08 N20 | GIS       | RES | 5.00 0.0      | 5.00 0.0  | 0.0 0.0   | 0.0 0.0   | 10.00 0.0 |
| 30  | 004.000 | DEVELOP PLAN<br>TO CONTROL<br>POISON IVY                      |     |      | N24     | RG-RM-NAT | RES | 2.00 0.0      | 0.0 0.0   | 0.0 0.0   | 0.0 0.0   | 2.00 0.0  |
| 32  | 008.000 | DEVELOP<br>ACTION PLAN<br>TO CONTROL<br>PURPLE<br>LOOSESTRIFE |     |      | N05     | PKBASE-NR | MIT | 2.00 0.0      | 0.0 0.0   | 0.0 0.0   | 0.0 0.0   | 2.00 0.0  |
| 34  | 009.000 | UPDATE<br>AERIAL<br>PHOTOGRAPHS                               |     |      | N20 N16 | TEMPS-NR  | RES | 1.00 0.0      | 0.0 0.0   | 0.0 0.0   | 0.0 0.0   | 1.00 0.0  |
| 36  | 011.000 | DEVELOP<br>ORCHARD<br>MANAGEMENT                              |     | CULL | C01 N08 | RG-NS-RES | RES | 0.0 0.0       | 3.00 0.0  | 0.0 0.0   | 0.0 0.0   | 3.00 0.0  |

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PROGRAMMING SHEET 2  
NATURAL  
UNFUNDED ACTIVITIES  
(\$ in thousands)

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PARK: MIMA  
REGION: NARO

| PK                  | PROJECT | PROJECT TITL                                                 | PKG | CULT         | SYSTEM    | FUNDING | ACT | STARTING YEAR | OUTYEAR 1  | OUTYEAR 2 | OUTYEAR 3 | TOTAL       |
|---------------------|---------|--------------------------------------------------------------|-----|--------------|-----------|---------|-----|---------------|------------|-----------|-----------|-------------|
| PRI                 | NUMBER  |                                                              | NUM | RES          | WIDE      | SOURCE  | TYP |               |            |           |           |             |
|                     |         |                                                              |     | TYPE         | ISSUE     |         |     | \$ \$ FTE     | \$ \$ FTE  | \$ \$ FTE | \$ \$ FTE | \$ \$ FTE   |
|                     |         | PLAN                                                         |     |              |           |         |     |               |            |           |           |             |
| 38                  | 014.000 | DIGITIZE<br>FUELS MODEL<br>MAPS                              |     | COMB N07     |           | FIRE-\$ | RES | 2.00 0.0      | 0.0 0.0    | 0.0 0.0   | 0.0 0.0   | 2.00 0.0    |
| 40                  | 001.000 | CONDUCT<br>MANAGEMENT<br>IGNITED<br>RESEARCH<br>BURNS        |     | CULL N08 N20 | REG-OTHER |         | RES | 3.00 0.0      | 0.0 0.0    | 0.0 0.0   | 0.0 0.0   | 3.00 0.0    |
| 44                  | 030.000 | ADD LAW<br>ENFORCEMENT<br>POSITIONS                          |     | COMB N22 C20 | PKBASE-NR |         | PRO | 160.00 4.5    | 0.0 0.0    | 0.0 0.0   | 0.0 0.0   | 160.00 4.5  |
| 52                  | 031.000 | LIASON TO<br>CONSERVATION<br>COMMISSIONS<br>&<br>COMMUNITIES |     | COMB N06 N16 | PKBASE-NR |         | MON | 20.00 0.5     | 0.0 0.0    | 0.0 0.0   | 0.0 0.0   | 20.00 0.5   |
| 29 projects printed |         |                                                              |     |              |           |         |     |               |            |           |           |             |
| Grand Total         |         |                                                              |     |              |           |         |     | 460.00 10.6   | 118.00 3.0 | 96.00 3.0 | 93.00 3.0 | 767.00 19.6 |

End of data

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PROGRAMMING SHEET 2  
CULTURAL  
UNFUNDED ACTIVITIES  
(\$ in thousands)

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REGION: NARO

| PK  | PROJECT | PROJECT TITL                                                     | PKG | CULT | SYSTEM- | FUNDING   | ACT | STARTING YEAR | OUTYEAR 1 | OUTYEAR 2 | OUTYEAR 3 | TOTAL       |
|-----|---------|------------------------------------------------------------------|-----|------|---------|-----------|-----|---------------|-----------|-----------|-----------|-------------|
| PRI | NUMBER  |                                                                  | NUM | RES  | WIDE    | SOURCE    | TYP |               |           |           |           |             |
|     |         |                                                                  |     | TYPE | ISSUE   |           |     | \$\$ FTE      | \$\$ FTE  | \$\$ FTE  | \$\$ FTE  | \$\$ FTE    |
| 0   | 002.000 | PREPARE<br>COLLECTION<br>CONDITION<br>SURVEY                     |     | OBJC | C09     | CRPP      | RES | 5.00 0.0      | 0.0 0.0   | 0.0 0.0   | 0.0 0.0   | 5.00 0.0    |
| 0   | 006.000 | PREPARE<br>COLLECTION<br>MANAGEMENT<br>PLAN                      |     | OBJC | C09     | CRPP      | RES | 2.00 0.0      | 0.0 0.0   | 0.0 0.0   | 0.0 0.0   | 2.00 0.0    |
| 0   | 010.000 | UPGRADE<br>ELECTRICAL<br>SERVICE -<br>NORTH BRIDGE<br>VIS. CEN.  |     | STRC | C13 C26 | REP-REHAB | MIT | 75.00 0.0     | 0.0 0.0   | 0.0 0.0   | 0.0 0.0   | 75.00 0.0   |
| 0   | 012.000 | STAB<br>FOUND/STRUCT<br>WALL-REPL<br>HEAT PLANT -<br>PERRY HSE   |     | STRC | C13     | REP-REHAB | MIT | 50.00 0.0     | 0.0 0.0   | 0.0 0.0   | 0.0 0.0   | 50.00 0.0   |
| 1   | 016.000 | UPGRADE<br>HEATING/COOL<br>ING SYSTEM -<br>SQUASH COURT          |     | STRC | C16     | REP-REHAB | MIT | 30.00 0.0     | 0.0 0.0   | 0.0 0.0   | 0.0 0.0   | 30.00 0.0   |
| 3   | 036.000 | REPLACE<br>HALON<br>SUPPRESSION<br>SYSTEM IN<br>SQUASH COURT     |     | OBJC | C20     | CRPP      | PRO | 20.00 0.0     | 0.0 0.0   | 0.0 0.0   | 0.0 0.0   | 20.00 0.0   |
| 5   | 004.000 | UPGRADE<br>MUSEUM<br>COLLECTION<br>STORAGE<br>EQUIPMENT          |     | OBJC | C16     | CRPP      | PRO | 25.00 0.0     | 0.0 0.0   | 0.0 0.0   | 0.0 0.0   | 25.00 0.0   |
| 7   | 037.000 | MAINTENANCE<br>SUPPORT -<br>HISTORIC<br>STRUCTURES/L<br>ANDSCAPE |     | COMB | C24     | PKBASE-CR | MIT | 420.00 14.0   | 0.0 0.0   | 0.0 0.0   | 0.0 0.0   | 420.00 14.0 |

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PROGRAMMING SHEET 2  
CULTURAL  
UNFUNDED ACTIVITIES  
(\$ in thousands)

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REGION: NARO

| PK  | PROJECT | PROJECT TITL | PKG | CULT | SYSTEM- | FUNDING   | ACT | STARTING YEAR | OUTYEAR 1  | OUTYEAR 2   | OUTYEAR 3 | TOTAL       |
|-----|---------|--------------|-----|------|---------|-----------|-----|---------------|------------|-------------|-----------|-------------|
| PRI | NUMBER  |              | NUM | RES  | WIDE    | SOURCE    | TYP |               |            |             |           |             |
|     |         |              |     | TYPE | ISSUE   |           |     | \$\$ FTE      | \$\$ FTE   | \$\$ FTE    | \$\$ FTE  | \$\$ FTE    |
| 9   | 021.000 | UPGRADE      |     | STRC | C13     | REP-REHAB | RES | 75.00 0.0     | 0.0 0.0    | 0.0 0.0     | 0.0 0.0   | 75.00 0.0   |
|     |         | FACILITES    |     |      |         | REP-REHAB | MIT | 0.0 0.0       | 225.00 0.0 | 0.0 0.0     | 0.0 0.0   | 225.00 0.0  |
|     |         | AND          |     |      |         |           |     |               |            |             |           |             |
|     |         | STRUCTURE-   |     |      |         | Subtotal  |     | 75.00 0.0     | 225.00 0.0 | 0.00 0.0    | 0.00 0.0  | 300.00 0.0  |
|     |         | WAYSIDE      |     |      |         |           |     |               |            |             |           |             |
|     |         | BARN-BRVC    |     |      |         |           |     |               |            |             |           |             |
| 11  | 013.000 | STABILIZATIO |     | SITE | C13 C05 | CONSTRUCT | RES | 0.0 0.0       | 200.00 0.0 | 0.0 0.0     | 0.0 0.0   | 200.00 0.0  |
|     |         | N/REHAB -    |     |      |         | CONSTRUCT | MIT | 0.0 0.0       | 0.0 0.0    | 1100.00 0.0 | 0.0 0.0   | 1100.00 0.0 |
|     |         | MERRIAM      |     |      |         |           |     |               |            |             |           |             |
|     |         | HOUSE AND    |     |      |         | Subtotal  |     | 0.00 0.0      | 200.00 0.0 | 1100.00 0.0 | 0.00 0.0  | 1300.00 0.0 |
|     |         | GROUNDS      |     |      |         |           |     |               |            |             |           |             |
| 13  | 029.000 | UPGRADE FIRE |     | COMB | C20     | REP-REHAB | PRO | 10.00 0.0     | 0.0 0.0    | 0.0 0.0     | 0.0 0.0   | 10.00 0.0   |
|     |         | PROTECTION   |     |      |         |           |     |               |            |             |           |             |
|     |         | SYSTEM IN    |     |      |         |           |     |               |            |             |           |             |
|     |         | THE WAYSIDE  |     |      |         |           |     |               |            |             |           |             |
| 15  | 007.000 | CONDUCT A    |     | OBJC | C09     | CRPP      | PRO | 10.00 0.0     | 0.0 0.0    | 0.0 0.0     | 0.0 0.0   | 10.00 0.0   |
|     |         | CONDITION    |     |      |         |           |     |               |            |             |           |             |
|     |         | SURVEY OF    |     |      |         |           |     |               |            |             |           |             |
|     |         | TEXTILES     |     |      |         |           |     |               |            |             |           |             |
| 17  | 014.000 | INTERIOR/EXT |     | STRC | C13 C05 | REP-REHAB | MIT | 250.00 0.0    | 0.0 0.0    | 0.0 0.0     | 0.0 0.0   | 250.00 0.0  |
|     |         | ERIOR REPAIR |     |      |         |           |     |               |            |             |           |             |
|     |         | - NOAH       |     |      |         |           |     |               |            |             |           |             |
|     |         | BROOKS       |     |      |         |           |     |               |            |             |           |             |
|     |         | TAVERN       |     |      |         |           |     |               |            |             |           |             |
| 19  | 017.000 | STRUCTURAL   |     | STRC | C13 C05 | REP-REHAB | MIT | 150.00 0.0    | 0.0 0.0    | 0.0 0.0     | 0.0 0.0   | 150.00 0.0  |
|     |         | REPAIRS -    |     |      |         |           |     |               |            |             |           |             |
|     |         | DANIEL       |     |      |         |           |     |               |            |             |           |             |
|     |         | TAYLOR HOUSE |     |      |         |           |     |               |            |             |           |             |
| 21  | 003.000 | CONDUCT A    |     | OBJC | C09     | CRPP      | PRO | 10.00 0.0     | 0.0 0.0    | 0.0 0.0     | 0.0 0.0   | 10.00 0.0   |
|     |         | CONDITION    |     |      |         |           |     |               |            |             |           |             |
|     |         | SURVEY OF    |     |      |         |           |     |               |            |             |           |             |
|     |         | FURNITURE    |     |      |         |           |     |               |            |             |           |             |
| 23  | 040.000 | SIGNIFICANT  |     | COMB | C12 N08 | CRPP      | RES | 20.00 0.5     | 0.0 0.0    | 0.0 0.0     | 0.0 0.0   | 20.00 0.5   |
|     |         | PLANT        |     |      |         | PKBASE-CR | MIT | 0.0 0.0       | 10.00 0.5  | 0.0 0.0     | 0.0 0.0   | 10.00 0.5   |
|     |         | MATERIAL     |     |      |         |           |     |               |            |             |           |             |
|     |         | PRESERVATION |     |      |         | Subtotal  |     | 20.00 0.5     | 10.00 0.5  | 0.00 0.0    | 0.00 0.0  | 30.00 1.0   |
|     |         | /REPLACEMENT |     |      |         |           |     |               |            |             |           |             |

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PROGRAMMING SHEET 2  
CULTURAL  
UNFUNDED ACTIVITIES  
(\$ in thousands)

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REGION: NARO

| PK  | PROJECT | PROJECT TITL                                        | PKG | CULT | SYSTEM  | FUNDING       | ACT | STARTING YEAR | OUTYEAR 1   | OUTYEAR 2 | OUTYEAR 3 | TOTAL       |
|-----|---------|-----------------------------------------------------|-----|------|---------|---------------|-----|---------------|-------------|-----------|-----------|-------------|
| PRI | NUMBER  |                                                     | NUM | RES  | WIDE    | SOURCE        | TYP |               |             |           |           |             |
|     |         |                                                     |     | TYPE | ISSUE   |               |     | \$\$ FTE      | \$\$ FTE    | \$\$ FTE  | \$\$ FTE  | \$\$ FTE    |
| 25  | 019.000 | EROSION CONTROL - NORTH BRIDGE WALKWAY              |     | CULL | C10     | REG-OTHER RES |     | 15.00 0.0     | 0.0 0.0     | 0.0 0.0   | 0.0 0.0   | 15.00 0.0   |
|     |         |                                                     |     |      |         | REG-OTHER MIT |     | 0.0 0.0       | 35.00 0.0   | 0.0 0.0   | 0.0 0.0   | 35.00 0.0   |
|     |         |                                                     |     |      |         | Subtotal      |     | 15.00 0.0     | 35.00 0.0   | 0.00 0.0  | 0.00 0.0  | 50.00 0.0   |
| 27  | 020.000 | PREPARE & IMPLEMENT DRAINAGE PLAN - WAYSIDE GROUNDS |     | CULL | C10 C12 | REG-OTHER RES |     | 5.00 0.0      | 0.0 0.0     | 0.0 0.0   | 0.0 0.0   | 5.00 0.0    |
|     |         |                                                     |     |      |         | REG-OTHER MIT |     | 0.0 0.0       | 10.00 0.0   | 0.0 0.0   | 0.0 0.0   | 10.00 0.0   |
|     |         |                                                     |     |      |         | Subtotal      |     | 5.00 0.0      | 10.00 0.0   | 0.00 0.0  | 0.00 0.0  | 15.00 0.0   |
| 29  | 039.000 | RESTORE BATTLE ROAD                                 | 158 | CULL | C13     | CONSTRUCT RES |     | 200.00 0.0    | 0.0 0.0     | 0.0 0.0   | 0.0 0.0   | 200.00 0.0  |
|     |         |                                                     |     |      |         | CONSTRUCT MIT |     | 0.0 0.0       | 5300.00 0.0 | 0.0 0.0   | 0.0 0.0   | 5300.00 0.0 |
|     |         |                                                     |     |      |         | PKBASE-CR PRO |     | 0.0 0.0       | 0.0 0.0     | 85.00 3.0 | 0.0 0.0   | 85.00 3.0   |
|     |         |                                                     |     |      |         | Subtotal      |     | 200.00 0.0    | 5300.00 0.0 | 85.00 3.0 | 0.00 0.0  | 5585.00 3.0 |
| 31  | 035.000 | DEVELOP DISASTER PLAN                               |     | COMB | C26     | CRPP          | PRO | 10.00 0.0     | 0.0 0.0     | 0.0 0.0   | 0.0 0.0   | 10.00 0.0   |
| 33  | 005.000 | PROVIDE CONSERVATION TREATMENT FOR ARTIFACTS        |     | OBJC | C15     | CRPP          | MIT | 50.00 0.0     | 0.0 0.0     | 0.0 0.0   | 0.0 0.0   | 50.00 0.0   |
| 35  | 018.000 | HISTORIC GROUNDS REPORT - NORTH BRIDGE AREA         |     | SITE | C11     | REG-OTHER RES |     | 10.00 0.0     | 0.0 0.0     | 0.0 0.0   | 0.0 0.0   | 10.00 0.0   |
|     |         |                                                     |     |      |         | REG-OTHER MIT |     | 0.0 0.0       | 40.00 0.0   | 0.0 0.0   | 0.0 0.0   | 40.00 0.0   |
|     |         |                                                     |     |      |         | Subtotal      |     | 10.00 0.0     | 40.00 0.0   | 0.00 0.0  | 0.00 0.0  | 50.00 0.0   |
| 37  | 023.000 | CONDUCT ROCKWALL STUDY-STABILIZE WALLS PARKWIDE     |     | STRC | C13     | REP-REHAB RES |     | 4.50 0.0      | 0.0 0.0     | 0.0 0.0   | 0.0 0.0   | 4.50 0.0    |
| 39  | 024.000 | DEVELOP & IMPLEMENT CULT LANDSCAPE PLAN-WAYSIDE GRD |     | CULL | C11     | REG-OTHER RES |     | 10.00 0.0     | 0.0 0.0     | 0.0 0.0   | 0.0 0.0   | 10.00 0.0   |
|     |         |                                                     |     |      |         | REG-OTHER MIT |     | 20.00 0.0     | 0.0 0.0     | 0.0 0.0   | 0.0 0.0   | 20.00 0.0   |
|     |         |                                                     |     |      |         | Subtotal      |     | 30.00 0.0     | 0.00 0.0    | 0.00 0.0  | 0.00 0.0  | 30.00 0.0   |

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PROGRAMMING SHEET 2  
CULTURAL  
UNFUNDED ACTIVITIES  
(\$ in thousands)

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REGION: NARO

| PK                  | PROJECT | PROJECT TITL                                                       | PKG | CULT | SYSTEM  | FUNDING   | ACT | STARTING YEAR | OUTYEAR 1   | OUTYEAR 2   | OUTYEAR 3 | TOTAL        |
|---------------------|---------|--------------------------------------------------------------------|-----|------|---------|-----------|-----|---------------|-------------|-------------|-----------|--------------|
| PRI                 | NUMBER  |                                                                    | NUM | RES  | WIDE    | SOURCE    | TYP |               |             |             |           |              |
|                     |         |                                                                    |     | TYPE | ISSUE   |           |     | \$\$ FTE      | \$\$ FTE    | \$\$ FTE    | \$\$ FTE  | \$\$ FTE     |
| 41                  | 015.000 | STRUCTURAL<br>REPAIRS -<br>SAMUAL<br>BROOKS HOUSE                  |     | STRC | C13 C05 | REP-REHAB | MIT | 75.00 0.0     | 0.0 0.0     | 0.0 0.0     | 0.0 0.0   | 75.00 0.0    |
| 42                  | 034.000 | UPGRADE/EXPA<br>ND INTRUSION<br>ALARM SYSTEM<br>BUTTRICK<br>BARN   |     | OBJC | C20     | CRPP      | PRO | 5.00 0.1      | 0.0 0.0     | 0.0 0.0     | 0.0 0.0   | 5.00 0.1     |
| 43                  | 038.000 | MAINTENANCE<br>OF RESTORED<br>BATTLE ROAD                          |     | CULL | N08     | RG-CR-MTN | RES | 5.00 0.0      | 0.0 0.0     | 0.0 0.0     | 0.0 0.0   | 5.00 0.0     |
|                     |         |                                                                    |     |      |         | PKBASE-CR | MIT | 0.0 0.0       | 5.00 0.2    | 0.0 0.0     | 0.0 0.0   | 5.00 0.2     |
|                     |         |                                                                    |     |      |         | Subtotal  |     | 5.00 0.0      | 5.00 0.2    | 0.00 0.0    | 0.00 0.0  | 10.00 0.2    |
| 45                  | 022.000 | COMPLETE<br>HSR/HISTORIC<br>GROUNDS<br>REPORT - 23<br>STRUC.       |     | COMB | C05 C11 | REG-OTHER | RES | 75.00 0.0     | 0.0 0.0     | 0.0 0.0     | 0.0 0.0   | 75.00 0.0    |
| 46                  | 001.000 | CATALOG<br>BACKLOG OF<br>MUSEUM<br>COLLECTION                      |     | OBJC | C03     | SVC-OTHER | RES | 500.00 0.0    | 0.0 0.0     | 0.0 0.0     | 0.0 0.0   | 500.00 0.0   |
| 47                  | 008.000 | DETERMINE<br>AIR QUALITY<br>EFFECTS ON<br>CULTURAL<br>RESOURCES    |     | OBJC | N14 C12 | TEMP\$-CR | RES | 3.00 0.0      | 0.0 0.0     | 0.0 0.0     | 0.0 0.0   | 3.00 0.0     |
| 48                  | 025.000 | DEVELOP/IMPL<br>EMENT<br>CULT.RES.PLA<br>N-BUT.MANSIO<br>N GARDENS |     | CULL | C11     | REG-OTHER | RES | 20.00 0.0     | 0.0 0.0     | 0.0 0.0     | 0.0 0.0   | 20.00 0.0    |
|                     |         |                                                                    |     |      |         | PKBASE-CR | PRO | 0.0 0.0       | 35.00 1.0   | 0.0 0.0     | 0.0 0.0   | 35.00 1.0    |
|                     |         |                                                                    |     |      |         | Subtotal  |     | 20.00 0.0     | 35.00 1.0   | 0.00 0.0    | 0.00 0.0  | 55.00 1.0    |
| 31 projects printed |         |                                                                    |     |      |         |           |     |               |             |             |           |              |
| Grand Total         |         |                                                                    |     |      |         |           |     | 2159.50 14.6  | 5860.00 1.7 | 1185.00 3.0 | 0.00 0.0  | 9204.50 19.3 |

End of data

Minute Man NHP  
Resource Management Plan

APPENDIX A: CULTURAL RESOURCE DOCUMENTATION CHECKLIST

ATTACHMENT B-1

CULTURAL RESOURCE DOCUMENTATION CHECKLIST - B1

Place an X in the appropriate column. Leave columns blank if document is not required for the park. Remember that items in the first section, PLANNING DOCUMENTS, may also apply to natural resources. See NPS-28, Chapter 2 for description of each inventory.

| SIZE                                                           | CURRENT AND APPROVED | INCOMPLETE NEEDS REVISION OR UPDATING | NEEDED |
|----------------------------------------------------------------|----------------------|---------------------------------------|--------|
| <u>PLANNING DOCUMENTS</u>                                      |                      |                                       |        |
| Preauthorization and Authorization                             | X                    |                                       |        |
| Statement for Management (SFM)                                 | X                    |                                       |        |
| Outline of Planning Requirements (OPR)                         |                      |                                       | X      |
| General Management Plan (GMP)                                  | X                    |                                       |        |
| Development Concept Plan (DCP)                                 |                      |                                       | X      |
| Resources Management Plan (RMP)                                | X                    |                                       |        |
| Interpretive Prospectus (IP)                                   | X                    |                                       |        |
| <u>SERVICEWIDE INVENTORIES, LISTS, CATALOGS, AND REGISTERS</u> |                      |                                       |        |
| Cultural Resource Bibliography (CRBIB)                         |                      | X                                     |        |
| Cultural Sites Inventory (CSI)                                 |                      |                                       | X      |
| List of Classified Structures (LCS)                            |                      | X                                     |        |
| National Catalog of Museum Objects                             |                      | X                                     |        |
| National Register of Historic Places                           |                      | X                                     |        |
| <u>BASIC CULTURAL RESOURCE DOCUMENTS</u>                       |                      |                                       |        |
| Archeological Overview and Assessment                          | X                    |                                       |        |
| Archeological Identification Studies                           | X                    |                                       |        |
| Archeological Evaluation Studies                               |                      |                                       | X      |

Minute Man NHP  
Resource Management Plan

ATTACHEMENT B-2

CULTURAL RESOURCE DOCUMENTATION CHECKLIST - B2 (cont.)

| TITLE                                            | CURRENT AND APPROVED | INCOMPLETE NEEDS REVISION OR UPDATING | NEEDED |
|--------------------------------------------------|----------------------|---------------------------------------|--------|
| <u>BASIC CULTURAL RESOURCE DOCUMENTS (cont.)</u> |                      |                                       |        |
| Ethnographic Overview and Assessment             |                      |                                       | NA     |
| Ethnographic Oral Histories & Life Histories     |                      |                                       | NA     |
| Ethnographic Program                             |                      |                                       | NA     |
| Historical Base Map                              |                      | X                                     |        |
| Historic Resource Study (HRS)                    |                      |                                       | X      |
| Park Administrative History                      | X                    |                                       |        |
| Scope of Collection Statement                    |                      | X                                     |        |
| <u>SPECIAL RESOURCE STUDIES AND PLANS</u>        |                      |                                       |        |
| Archeological & Ethno. Collections Studies       | X                    |                                       |        |
| Archeological Data Recovery Studies              |                      | X                                     |        |
| Collection Management Plan                       |                      | X                                     |        |
| Collection Storage Plan                          | X                    |                                       |        |
| Collection Condition Survey                      |                      | X                                     |        |
| Cultural Landscape Report (CLR)                  |                      | X                                     |        |
| Ethnohistory                                     |                      |                                       | NA     |
| Exhibit Plan                                     |                      | X                                     |        |
| Historic Furnishings Report                      | X Wayside            |                                       |        |
| Historic Structure Preservation Guide (HSPG)     |                      |                                       | X      |
| Historic Structure Report                        |                      |                                       | X      |
| Social Impact Study                              |                      |                                       | X      |
| Special History Study                            |                      | X                                     |        |
| Traditional Use Study                            |                      |                                       | NA     |

Minute Man NHP  
Resource Management Plan

APPENDIX B: PARK CULTURAL RESOURCES STATUS SUMMARY SHEETS

(4 pages, starts on next page)

# SUMMARY CHART FOR ARCHEOLOGICAL SITES

Minute Man National Historical Park

| Significance     | Condition |      |      |           |         | Impacts |          |     |         | Documentation |      |      |
|------------------|-----------|------|------|-----------|---------|---------|----------|-----|---------|---------------|------|------|
|                  | Good      | Fair | Poor | Destroyed | Unknown | Severe  | Moderate | Low | Unknown | Good          | Fair | Poor |
| National         | 0         | 0    | 0    | 0         | 0       | 0       | 0        | 0   | 0       | 0             | 0    | 0    |
| State & Regional | 0         | 0    | 0    | 0         | 0       | 0       | 0        | 0   | 0       | 0             | 0    | 0    |
| Local            | 0         | 0    | 0    | 0         | 0       | 0       | 0        | 0   | 0       | 0             | 0    | 0    |
| Not Evaluated    | 54        | 0    | 54   | 0         | 0       | 0       | 54       | 0   | 0       | 0             | 0    | 54   |
| TOTALS           | 54        | 0    | 54   | 0         | 0       | 0       | 54       | 0   | 0       | 54            | 0    | 0    |

# SUMMARY CHART FOR STRUCTURES

Minute Man National Historical Park

| Significance     | Condition |      |      |         | Impacts |          |     |         | Documentation |      |      |
|------------------|-----------|------|------|---------|---------|----------|-----|---------|---------------|------|------|
|                  | Good      | Fair | Poor | Unknown | Severe  | Moderate | Low | Unknown | Good          | Fair | Poor |
| National         | 0         | 1    | 0    | 0       | 0       | 1        | 0   | 0       | 1             | 0    | 0    |
| State & Regional | 0         | 0    | 0    | 0       | 0       | 0        | 0   | 0       | 0             | 0    | 0    |
| Local            | 0         | 0    | 0    | 0       | 0       | 0        | 0   | 0       | 0             | 0    | 0    |
| Not Evaluated    | 8         | 17   | 3    | 0       | 5       | 7        | 16  | 0       | 0             | 3    | 25   |
| TOTALS           | 8         | 18   | 3    |         | 5       | 8        | 16  | 0       | 1             | 3    | 25   |

# SUMMARY CHART FOR OBJECTS

## Minute Man National Historical Park

| DOCUMENTATION<br>Form 10-254 Submitted to National Catalog in<br>Harper's Ferry | Archeology | Ethnology | History | Archives | Biology | Paleontology | Geology | TOTALS   |
|---------------------------------------------------------------------------------|------------|-----------|---------|----------|---------|--------------|---------|----------|
| Registration Data Only                                                          | 0          | 0         | 0       | 0        | 0       | 0            | 0       | 0        |
| Registration & Catalog Data                                                     | (57,919)   | 0         | (9,005) | 17,113   | 0       | 0            | 0       | (84,037) |
| Total Items Cataloged                                                           | (57,919)   | 0         | (9,005) | 17,113   | 0       | 0            | 0       | (84,037) |
| Backlog to be Cataloged                                                         | (139926)   | 0         | (2,400) | 6,000    | 0       | 0            | 0       | (148326) |
| Total Collection Summary                                                        | (194845)   | 0         | (11405) | 23,113   | 0       | 0            | 0       | (232363) |

| CONDITION<br>The percentage of collection in the following<br>category: | Archeology | Ethnology | History | Archives | Biology | Paleontology | Geology |
|-------------------------------------------------------------------------|------------|-----------|---------|----------|---------|--------------|---------|
| Excellent                                                               | 5          | 0         | 20      | 45       | 0       | 0            | 0       |
| Good                                                                    | 90         | 0         | 64      | 54       | 0       | 0            | 0       |
| Fair                                                                    | 5          | 0         | 14      | 1        | 0       | 0            | 0       |
| Poor                                                                    | 0          | 0         | 1       | 0        | 0       | 0            | 0       |
| Unknown                                                                 | 0          | 0         | 0       | 0        | 0       | 0            | 0       |

# SUMMARY CHART FOR CULTURAL LANDSCAPES

Minute Man National Historical Park

| Significance     |   | Condition |      |      |         | Impacts |          |     |         | Documentation |      |      |  |
|------------------|---|-----------|------|------|---------|---------|----------|-----|---------|---------------|------|------|--|
|                  |   | Good      | Fair | Poor | Unknown | Severe  | Moderate | Low | Unknown | Good          | Fair | Poor |  |
| National         | 0 | 0         | 0    | 0    | 0       | 0       | 0        | 0   | 0       | 0             | 0    | 0    |  |
| State & Regional | 0 | 0         | 0    | 0    | 0       | 0       | 0        | 0   | 0       | 0             | 0    | 0    |  |
| Local            | 0 | 0         | 0    | 0    | 0       | 0       | 0        | 0   | 0       | 0             | 0    | 0    |  |
| Not Evaluated    | 9 | 0         | 4    | 0    | 5       | 0       | 5        | 7   | 0       | 0             | 0    | 9    |  |
| TOTALS           | 9 | 0         | 4    | 0    | 5       | 0       | 5        | 7   | 0       | 0             | 0    | 9    |  |

Minute Man NHP  
Resource Management Plan

APPENDIX C: RELATED ACTION PLANS AND STANDARD OPERATING PROCEDURES

| Action Plan Title                                                                       | Date     |
|-----------------------------------------------------------------------------------------|----------|
| Fire Management Plan for Minute Man National Historical Park                            | 02/14/92 |
| Cultural Landscape Report for Minute Man National<br>Historical Park: Treatment Options | 07/30/93 |
| Integrated Pest Management Plan                                                         | DRAFT    |
| Vegetative Management Plan                                                              | DRAFT    |

| SOP Title                                                                        | Number | Date     |
|----------------------------------------------------------------------------------|--------|----------|
| Purchase of Pesticides                                                           | 303    | 01/01/92 |
| Annual Alarm Testing and Inspecting Procedures                                   | 408    | 01/01/92 |
| Response to Vandalism and/or Theft in Progress -<br>Non-Commissioned Personnel   | 409    | 01/01/92 |
| Salvage Cache Procedures                                                         | 410    | 01/01/92 |
| Special Use Permits                                                              | 417    | 01/01/92 |
| Response to Hazardous Material Spills                                            | 430    | 01/01/93 |
| 106 Compliance Procedure                                                         | 502    | 01/01/92 |
| Access to Exhibit Cases and Furnished Rooms and<br>Removal of Objects            | 601    | 01/01/92 |
| Reporting Incidents Affecting Collections                                        | 602    | 01/01/92 |
| Access Policy and Research Procedures - The<br>Harriett M. Lothrop Family Papers | 603    | 01/01/92 |
| Opening and Closing Procedures for Noah Brooks Tavern                            | 604    | 01/01/92 |
| Opening and Closing Procedures for Squash Court                                  | 605    | 01/01/92 |
| Access Procedures for Collections Storage Areas                                  | 606    | 01/01/92 |
| Photography by Visitors of Objects on Exhibit                                    | 607    | 01/01/92 |
| Reporting Losses of or Damage to Objects                                         | 608    | 01/01/92 |
| Access to Collection Records                                                     | 609    | 01/01/92 |
| Protection of Borrowed Objects (Incoming Loans)                                  | 610    | 01/01/92 |
| Protection of Objects Awaiting Accessioning<br>and Cataloging                    | 611    | 01/01/92 |
| Researcher and Staff Use of Collections                                          | 612    | 01/01/92 |
| Reading Room Procedures                                                          | 613    | 01/01/92 |
| Library Operating Procedures                                                     | 614    | 01/01/92 |
| Annual Inventory Procedures For The Museum<br>Collection                         | 615    | 01/01/92 |

Minute Man NHP  
Resource Management Plan

APPENDIX D: ANNUAL PROJECT STATUS AND ACCOMPLISHMENT REPORT

Minute Man NHP  
Resource Management Plan

APPENDIX E: BIBLIOGRAPHY

APPENDIX E

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13 PHOTOGRAPHS

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LOCATIONS: WASO

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GRAPHICS: 14 MAPS

10 PRIMARY SOURCES

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LOCATIONS: WASO

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DATE: 011967 PAGES: 47 VOLS: 1 BIENUM: 000564  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
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DATE: 011967 PAGES: 10 VOLS: 1 BIENUM: 000569  
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DATE: 121966 PAGES: 15 VOLS: 1 BIENUM: 000574  
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DATE: 031973 PAGES: 113 VOLS: 1 BIENUM: 000575  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
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LOCATIONS: WASO IDLCS: 00926

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HSR-PART II, ARCHITECTURAL DATA SECTION, THE WAYSIDE BARN

DATE: 031972 PAGES: 34 VOLS: 1 BIENUM: 000576  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
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DATE: 051973 PAGES: 27 VOLS: 1 BIBNUM: 000612  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
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DATE: 051968 PAGES: 19 VOLS: 1 BIBNUM: 012348  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
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DATE: 051981 PAGES: VOLS: 1 BIBNUM: 012781  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: NARO IDLCS: 00931

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DATE: 081983 PAGES: 0515 VOLS: 001 BIBNUM: 012349  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
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DATE: 031973 PAGES: 26 VOLS: 1 BIBNUM: 012768  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
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DATE: 041976 PAGES: 10 VOLS: 1 BIBNUM: 012779  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: NARO IDLCS: 00926

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DATE: 091973 PAGES: 50 VOLS: 1 BIBNUM: 000611  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: WASO NARO IDLCS:

HARRIS, EARL R.

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DATE: 041973 PAGES: 36 VOLS: 1 BIBNUM: 000577  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: WASO IDLCS: 00927

KEUNE, RUSSELL V.

HSR-PART I, BUILDING NUMBER LIN-3, THE JOSIAH NELSON HOUSE

DATE: 021963 PAGES: 15 VOLS: 1 BIBNUM: 000552  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: WASO IDLCS: 00920

KEUNE, RUSSELL V.

HSR-PART I, BUILDING NUMBER LEX-1, THE EBENEZER FISKE HOUSE

DATE: 031963 PAGES: 9 VOLS: 1 BIBNUM: 000556  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: WASO IDLCS: 00923

KEUNE, RUSSELL V.

HSR-PART I, ARCHITECTURAL DATA SECTION, BUILDING NUMBER CON-1A, THE  
JOB BROOKS HOUSE

DATE: 091963 PAGES: 15 VOLS: 1 BIBNUM: 000578  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
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MINUTE MAN NATIONAL HISTORICAL PARK

KEUNE, RUSSELL V.

HSR-PART I, BUILDING NUMBER LEX-3, THE JACOB WHITTEMORE HOUSE

DATE: 011963 PAGES: 50 VOLS: 1 BIBNUM: 000584  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: WASO IDLCS: 00929

KEUNE, RUSSELL V.

HSR-PART I, BUILDING NUMBER LIN-9, THE JOSHUA BROOKS HOUSE

DATE: 011963 PAGES: 50 VOLS: 1 BIBNUM: 010416  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: WASO IDLCS: 06552

KRYSTON, CYNTHIA E.

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DATE: 071972 PAGES: 26 VOLS: 1 BIBNUM: 000543  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: NARO IDLCS:

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DATE: 081963 PAGES: VOLS: 1 BIBNUM: 012767  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
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LEONARD, DAVID L.

HSR, THE GREAT NORTH BRIDGE AND HISTORIC WALL WEST

DATE: 001973 PAGES: 25 VOLS: 1 BIBNUM: 000613  
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13 PHOTOGRAPHS  
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LEOPOLD-SHARPE, LYNNE A.

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DATE: 121983 PAGES: 17 VOLS: 1 BIBNUM: 400168  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: NARO MIMA IDLCS:

LUZADER, JOHN F.

HISTORICAL HANDBOOK: MINUTE MAN NATIONAL HISTORICAL PARK,  
MASSACHUSETTS - DRAFT

DATE: 091973 PAGES: 143 VOLS: 1 BIBNUM: 400169  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: NARO MIMA IDLCS:

MINUTE MAN NATIONAL HISTORICAL PARK

LUZADER, JOHN F.

HISTORIC GROUNDS REPORT, BATTLE ROAD, FISKE HILL AREA

DATE: 001972 PAGES: 0014 VOLS: 001 BIBNUM: 000546  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: WASO IDLCS: 00919

LUZADER, JOHN F.

HSR, PTS I AND II, THE ELISHA JONES HOUSE

DATE: 091968 PAGES: 18 VOLS: 1 BIBNUM: 000566  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: WASO IDLCS: 00924

LUZADER, JOHN F.

HSR-PART I, HISTORICAL DATA SECTION, HARTWELL HOUSE AND HARTWELL  
TAVERN

DATE: 091968 PAGES: 37 VOLS: 1 BIBNUM: 000587  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: WASO IDLCS: 00930

LUZADER, JOHN F.

HISTORIC GROUNDS REPORT, HARTWELL TAVERN

DATE: 091972 PAGES: 0016 VOLS: 001 BIBNUM: 000591  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: WASO IDLCS: 00931

LUZADER, JOHN F.

HSR-PART I, HISTORICAL DATA SECTION, THE MAJOR JOHN BUTTRICK HOUS  
E

DATE: 091968 PAGES: 13 VOLS: 1 BIBNUM: 000595  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: WASO IDLCS: 00932

LUZADER, JOHN F.

HSR-PART II, HISTORICAL DATA SECTION, WALL WEST OF THE GREAT NORT  
H BRIDGE

DATE: 041968 PAGES: 8 VOLS: 1 BIBNUM: 000597  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: WASO IDLCS:

MACMAHON, DARCIE A.

EXCAVATIONS AT THE SAMUEL HARTWELL SITE

DATE: 071985 PAGES: 87 VOLS: 1 BIBNUM: 400175  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: NARO MIMA IDLCS: 00930

MINUTE MAN NATIONAL HISTORICAL PARK

MAHLSTEDT, THOMAS F.

ARCHEOLOGICAL IMPACT ASSESSMENT, HARTWELL TAVERN

DATE: 081979 PAGES: 20 VOLS: 1 BIBNUM: 010415  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: WASO IDLCS: 00931

MAHLSTEDT, THOMAS F.

ARCHEOLOGICAL IMPACT ASSESSMENT, ELISHA JONES HOUSE

DATE: 121979 PAGES: VOLS: 1 BIBNUM: 012776  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: NARO IDLCS: 00924

MALCOLM, JOYCE L.

THE SCENE OF THE BATTLE, 1775: HISTORIC GROUNDS REPORT, MINUTE MA  
N NHP, CULTURAL RESOURCES MANAGEMENT STUDY NO. 15

DATE: 001985 PAGES: 0133 VOLS: 001 BIBNUM: 015613  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: NARO IDLCS:

MALCOLM, JOYCE LEE

THE SCENE OF THE BATTLE, 1775: HISTORIC GROUNDS REPORT, MINUTE MA  
N NATIONAL HISTORICAL PARK

DATE: 001980 PAGES: 0133 VOLS: 001 BIBNUM: 002349  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: WASO IDLCS:

MULHERN, CHRISTOPHER H. AND CARROLL, ORVILLE W.

HSR, ARCHITECTURAL DATA, HARTWELL TAVERN

DATE: 011975 PAGES: 0199 VOLS: 001 BIBNUM: 012782  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: NARO IDLCS: 00931

NATHANSON, DAVID

AN ASSESSMENT OF THE LIBRARY AT MINUTE MAN NATIONAL HISTORIC PA  
RK (TYPESCRIPT)

DATE: 101983 PAGES: 30 VOLS: 1 BIBNUM: 012771  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: NARO IDLCS:

PHILADELPHIA PLANNING AND SERVICE CENTER

SPECIAL STUDY, HISTORIC MOTOR TRAILS AND DISPOSITION OF STRUCTUR  
ES IN MINUTE MAN NHP

DATE: 021968 PAGES: 0018 VOLS: 001 BIBNUM: 012347  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: WASO IDLCS:

MINUTE MAN NATIONAL HISTORICAL PARK

PRATT, MARJORIE K.

ARCHEOLOGICAL SURVEY AT THE HARTWELL TAVERN SITE

DATE: 071981 PAGES: 137 VOLS: 1 BIBNUM: 010418  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: WASO IDLCS: 00931

RITCHIE, DUNCAN; KING, MARSHA K.; VOGT, CHRISTY; FRAGOLA, PATRICIA

ARCHEOLOGICAL INVESTIGATIONS OF MINUTE MAN NHP, VOLUME 2: AN ESTIMATION APPROACH TO PREHISTORIC SITES (CRM STUDY NO. 23)

DATE: 001990 PAGES: 0203 VOLS: 002 BIBNUM: 015736  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: WASO IDLCS: 06552

ROBBINS, ROLAND WELLS

THE STORY OF THE MINUTE MAN | COUNTRY PRESS, INC., NEW LONDON, N. H., 1945 |

DATE: 001945 PAGES: 30 VOLS: 1 BIBNUM: 400179  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: NARO MIMA IDLCS: 06545

ROCKMORE, MARLENE

HISTORIC STRUCTURE REPORT: THE CAPTAIN WILLIAM SMITH HOUSE

DATE: PAGES: VOLS: BIBNUM: 400184  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: NARO MIMA IDLCS: 06553

RONSHHEIM, ROBERT D.

LAND IN THE PARK | DRAFT-NELSON ROAD AREA |

DATE: 001968 PAGES: 126 VOLS: 1 BIBNUM: 400170  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: NARO MIMA IDLCS:

RONSHHEIM, ROBERT D.

THE EPHRAIM HARTWELL TAVERN | TYPESCRIPT |

DATE: PAGES: 75 VOLS: 1 BIBNUM: 400177  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: MIMA IDLCS: 00931

RONSHHEIM, ROBERT

TROOP MOVEMENT MAP, MINUTE MAN NATIONAL HISTORICAL PARK

DATE: PAGES: 16 VOLS: 1 BIBNUM: 012772  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: NARO IDLCS:

MINUTE MAN NATIONAL HISTORICAL PARK

RONSHHEIM, ROBERT D

HSR, PT I, THE EBENEZER FISKE HOUSE

DATE: 071964 PAGES: 4 VOLS: 1 BIBNUM: 000561  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: NARO IDLCS: 00923

RONSHHEIM, ROBERT D.

HSR-PART II, THE WAYSIDE, HOME OF AUTHORS

DATE: 021968 PAGES: 116 VOLS: 1 BIBNUM: 000571  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: WASO IDLCS: 06549

RONSHHEIM, ROBERT D.

HSR, PT I, HISTORICAL DATA, THE JOB BROOKS HOUSE

DATE: 041964 PAGES: 5 VOLS: 1 BIBNUM: 000581  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: WASO IDLCS: 00928

RONSHHEIM, ROBERT D.

=HSR, PT I, THE JACOB WHITEMORE HOUSE

DATE: 031963 PAGES: 89 VOLS: 1 BIBNUM: 000586  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: WASO NARO IDLCS: 00929

RONSHHEIM, ROBERT D.

=HISTORIC GROUNDS REPORT, EBENEZER FISKE FARM AND BENJAMIN FISKE

DATE: 091965 PAGES: 11 VOLS: 1 BIBNUM: 012775  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: MIMA IDLCS:

SABIN, DOUGLAS P.

THE NEW ENGLAND TAVERN: A GENERAL STUDY ~~+~~ TYPESCRIPT ~~+~~

DATE: 101982 PAGES: 61 VOLS: 1 BIBNUM: 400178  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: NARO MIMA IDLCS: 00931

SMALL, EDWIN W.

HSR-PART I, ADMINISTRATIVE DATA SECTION, THE EBENEZER FISKE HOUSE  
, BUILDING NUMBER 2

DATE: 071964 PAGES: 6 VOLS: 1 BIBNUM: 000557  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: WASO IDLCS: 00923

MINUTE MAN NATIONAL HISTORICAL PARK

SMALL, EDWIN W.

HSR, PT I, ADMINISTRATIVE DATA, THE JOB BROOKS HOUSE

DATE: 041964    PAGES: 4    VOLS: 1    BIENUM: 000580  
GRAPHICS: 14 MAPS    10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: WASO    IDLCS: 00928

SMALL, EDWIN W.

HSR, PT I, THE JACOB WHITEMORE HOUSE

DATE: 051963    PAGES: 125    VOLS: 1    BIENUM: 000585  
GRAPHICS: 14 MAPS    10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: WASO    IDLCS: 00929

SNOW, CORDELIA THOMAS

RETHINKING EBENEZER FISKE

DATE: 021968    PAGES: 43    VOLS: 1    BIENUM: 000559  
GRAPHICS: 14 MAPS    10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: WASO    IDLCS: 00923

SNOW, CORDELIA THOMAS

EXCAVATIONS AT THE WAYSIDE

DATE: 031969    PAGES: 24    VOLS: 1    BIENUM: 000572  
GRAPHICS: 14 MAPS    10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: WASO    IDLCS:

SNOW, CORDELIA THOMAS

THE ROADS ON FISKE HILL, MINUTE MAN NHP

DATE: 021968    PAGES: 0018    VOLS: 001    BIENUM: 000602  
GRAPHICS: 14 MAPS    10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: WASO    IDLCS:

SNOW, CORDELIA THOMAS

EXCAVATIONS AT CASEY'S HOUSE

DATE: 051969    PAGES: 39    VOLS: 1    BIENUM: 000603  
GRAPHICS: 14 MAPS    10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: WASO    IDLCS:

SNOW, CORDELIA THOMAS

EXCAVATIONS ON THE JONATHAN BUTTRICK FARM: THE EPHRAIM AND WILL  
ARD BUTTRICK HOUSES

DATE: 031969    PAGES: 23    VOLS: 1    BIENUM: 000604  
GRAPHICS: 14 MAPS    10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: WASO    IDLCS: 00939

MINUTE MAN NATIONAL HISTORICAL PARK

SNOW, DAVID H.

THE LEFT. DAVID FISKE SITE

|                   |                |                    |                |
|-------------------|----------------|--------------------|----------------|
| DATE: 031969      | PAGES: 15      | VOLS: 1            | BIBNUM: 000599 |
| GRAPHICS: 14 MAPS |                | 10 PRIMARY SOURCES |                |
|                   | 13 PHOTOGRAPHS |                    |                |
| LOCATIONS: WASO   |                |                    | IDLCS:         |

SNOW, DAVID H.

THE THOMAS NELSON SR. FARM

|                   |                |                    |                |
|-------------------|----------------|--------------------|----------------|
| DATE: 031969      | PAGES: 15      | VOLS: 1            | BIBNUM: 000600 |
| GRAPHICS: 14 MAPS |                | 10 PRIMARY SOURCES |                |
|                   | 13 PHOTOGRAPHS |                    |                |
| LOCATIONS: WASO   |                |                    | IDLCS:         |

SNOW, DAVID H.

EXCAVATIONS AT SITE 264, THE THOMAS NELSON JR. HOUSE

|                   |                |                    |                |
|-------------------|----------------|--------------------|----------------|
| DATE: 001973      | PAGES: 23      | VOLS: 1            | BIBNUM: 000601 |
| GRAPHICS: 14 MAPS |                | 10 PRIMARY SOURCES |                |
|                   | 13 PHOTOGRAPHS |                    |                |
| LOCATIONS: WASO   |                |                    | IDLCS:         |

SNOW, DAVID H.

EXCAVATIONS FOR THE EBENEZER FISKE SITE, 1968

|                   |                |                    |                |
|-------------------|----------------|--------------------|----------------|
| DATE: 091969      | PAGES: 50      | VOLS: 1            | BIBNUM: 012774 |
| GRAPHICS: 14 MAPS |                | 10 PRIMARY SOURCES |                |
|                   | 13 PHOTOGRAPHS |                    |                |
| LOCATIONS: NARO   |                |                    | IDLCS:         |

STAFF

THE LEXINGTON-CONCORD ROAD

|                   |                |                    |                |
|-------------------|----------------|--------------------|----------------|
| DATE: 001938      | PAGES: 0017    | VOLS: 001          | BIBNUM: 000545 |
| GRAPHICS: 14 MAPS |                | 10 PRIMARY SOURCES |                |
|                   | 13 PHOTOGRAPHS |                    |                |
| LOCATIONS: WASO   |                |                    | IDLCS: 00919   |

STAFF

INTERPRETIVE PROSPECTUS, MINUTE MAN NATIONAL HISTORICAL PARK

|                   |                |                    |                |
|-------------------|----------------|--------------------|----------------|
| DATE: 021971      | PAGES: 41      | VOLS: 1            | BIBNUM: 010419 |
| GRAPHICS: 14 MAPS |                | 10 PRIMARY SOURCES |                |
|                   | 13 PHOTOGRAPHS |                    |                |
| LOCATIONS: WASO   |                |                    | IDLCS:         |

STAFF

RESOURCES MANAGEMENT PLAN, MINUTE MAN NATIONAL HISTORICAL PARK

|                   |                |                    |                |
|-------------------|----------------|--------------------|----------------|
| DATE: 051981      | PAGES: 100     | VOLS: 1            | BIBNUM: 011656 |
| GRAPHICS: 14 MAPS |                | 10 PRIMARY SOURCES |                |
|                   | 13 PHOTOGRAPHS |                    |                |
| LOCATIONS: WASO   |                |                    | IDLCS:         |

MINUTE MAN NATIONAL HISTORICAL PARK

STAFF

COMPLETION REPORT, THE MOVING AND REHABILITATION OF THE HARGROVE  
BARN

DATE: 111979 PAGES: VOLS: 1 BIBNUM: 012769  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: NARO IDLCS:

STAFF

COMPLETION REPORT, LANDSCAPING AT ELISHA JONES (BULLET HOLE) HOUSE

DATE: 101979 PAGES: 40 VOLS: 1 BIBNUM: 012777  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: NARO IDLCS: 00924

STAFF

COMPLETION REPORT, CHIMNEY STABILIZATION, HARTWELL HOUSE

DATE: 011980 PAGES: 10 VOLS: 1 BIBNUM: 012780  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: NARO IDLCS: 00930

STAFF

COMPLETION REPORT, GROUTING THE FOUNDATION WALL AT HARTWELL TAVERN

DATE: 111979 PAGES: VOLS: 1 BIBNUM: 012783  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: NARO IDLCS: 00931

STAFF

COMPLETION REPORT, REROOFING THE NOAH BROOKS TAVERN AND THE DANIEL  
TAYLOR HOUSE

DATE: 011979 PAGES: 45 VOLS: 1 BIBNUM: 012785  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: NARO IDLCS: 06546

STAFF

DEVELOPMENT CONCEPT PLAN; NORTH BRIDGE; MINUTE MAN NATIONAL HISTORICAL  
PARK

DATE: 011972 PAGES: 0005 VOLS: 001 BIBNUM: 014907  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: WASO IDLCS:

SULLIVAN, ARTHUR L.

HISTORICAL RESEARCH REPORT, THE JOB BROOKS HOUSE

DATE: 051963 PAGES: 44 VOLS: 1 BIBNUM: 000579  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: WASO IDLCS: 00928

MINUTE MAN NATIONAL HISTORICAL PARK

SULLIVAN, ARTHUR L.

HISTORICAL RESEARCH REPORT, THE JOSHUA BROOKS HOUSE

DATE: 031963    PAGES: 40    VOLS: 1    BIBNUM: 000583  
GRAPHICS: 14 MAPS    10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: NARO    IDLCS: 06552

SYNECKI, ALAN T.

ARCHEOLOGICAL INVESTIGATIONS OF NELSON ROAD

DATE: 101984    PAGES: 26    VOLS: 1    BIBNUM: 400172  
GRAPHICS: 14 MAPS    10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: NARO MIMA    IDLCS: 00919

SYNENKI, ALAN T. (ED.)

ARCHEOLOGICAL INVESTIGATIONS OF MINUTE MAN NEP, VOLUME 1: FARMER  
S AND ARTISANS OF THE HISTORICAL PERIOD

DATE: 001990    PAGES: 0446    VOLS: 001    BIBNUM: 015735  
GRAPHICS: 14 MAPS    10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: WASO    IDLCS: 14011

TOOGOOD, ANNA COXE

HISTORIC GROUNDS REPORT, THE WAYSIDE

DATE: 031970    PAGES: 200    VOLS: 1    BIBNUM: 000573  
GRAPHICS: 14 MAPS    10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: WASO    IDLCS: 06549

TOOGOOD, ANNA COXE

HSR, A COMPARATIVE STUDY, EPHRAIM HARTWELL TAVERN

DATE: 091974    PAGES: 31    VOLS: 1    BIBNUM: 000592  
GRAPHICS: 14 MAPS    10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: WASO    IDLCS: 00931

TORRES-REYES, RICARDO

FARMING AND LAND USES, GENERAL STUDY, MINUTE MAN NATIONAL HISTORI  
CAL PARK

DATE: 071969    PAGES: 71    VOLS: 1    BIBNUM: 000542  
GRAPHICS: 14 MAPS    10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: WASO    IDLCS:

TORRES-REYES, RICARDO

HISTORIC DATA, CAPTAIN BROWNS HOUSE

DATE: 091969    PAGES: 50    VOLS: 1    BIBNUM: 000608  
GRAPHICS: 14 MAPS    10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: WASO    IDLCS: 14011

MINUTE MAN NATIONAL HISTORICAL PARK

TOWLE, LINDA A.

AN ARCHEOLOGICAL ASSESSMENT OF THE PERRY FIELD

DATE: 021984 PAGES: 2 VOLS: 1 BIBNUM:400171  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: NARO MIMA IDLCS:

TOWLE, LINDA A.

QUARTZ FLAKES AND TURTLE BONES: THE NORTH BRIDGE SITE

DATE: 081984 PAGES: 96 VOLS: 1 BIBNUM:400219  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: WASO NARO MIMA IDLCS:00945

TOWLE, LINDA A. AND HSU, DICK P.

=ARCHEOLOGICAL INVESTIGATIONS AT CAPTAIN WILLIAM SMITH HOUSE

DATE: 001984 PAGES:9 VOLS:1 BIBNUM:400182  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: NARO MIMA IDLCS:06553

TOWLE, LINDA A. AND MACMAHON, DARCIE A.

ARCHEOLOGICAL COLLECTIONS MANAGEMENT AT MINUTE MAN NATIONAL  
HISTORICAL PARK, MASSACHUSETTS, ACMP SERIES NO. 4

DATE: 001987 PAGES: VOLS:4 BIBNUM:400286  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: WASO NARO MIMA IDLCS:00919

TOWLE, LINDA A.

INTENSIVE ARCHEOLOGICAL SURVEY OF THE PROPOSED WIDENING OF ROUT  
E 2A, LEXINGTON, MASSACHUSETTS

DATE: 031983 PAGES: 10 VOLS: 1 BIBNUM:012770  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: NARO IDLCS:

TREMER, CHARLES W.

INQUIRY AND RECOMMENDATIONS FOR DISPOSITION OF THE THOMAS  
NELSON, JR. SITE

DATE: 001974 PAGES: 35 VOLS: 1 BIBNUM:400185  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: MIMA IDLCS:12006

TREMER, CHARLES W.

ARCHEOLOGICAL INVESTIGATION OF BATTLE ROAD

DATE: 001972 PAGES: 20 VOLS: 1 BIBNUM:000547  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: WASO IDLCS:00919

MINUTE MAN NATIONAL HISTORICAL PARK

TREMER, CHARLES W.

INVESTIGATION OF BATTLE ROAD--JOSIAH BROOKS AREA:RECOMMENDATIONS  
FOR ARCHEOLOGICAL & HISTORICAL RESEARCH, MINUTE MAN NHP

DATE: 081972 PAGES:0003 VOLS:001 BIBNUM:000548  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: WASO IDLCS:00919

TREMER, CHARLES W.

INVESTIGATION OF BATTLE ROAD AT MERIAMS CORNER, MINUTE MAN NHP

DATE: 081972 PAGES:0005 VOLS:001 BIBNUM:000549  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: WASO IDLCS:00919

TREMER, CHARLES W.

REPORT OF THE ARCHEOLOGICAL INVESTIGATION OF THE HARTWELL TAVERN  
SITE

DATE: 001972 PAGES: 16 VOLS: 1 BIBNUM:000593  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: WASO IDLCS:00931

TREMER, CHARLES W.

THE DAVID BROWN SITE

DATE: 041973 PAGES: 168 VOLS: 1 BIBNUM:000609  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: WASO IDLCS:14011

TREMER, CHARLES W.

ARCHEOLOGICAL INVESTIGATION OF THE LOCATION OF THE THOMAS FLINT  
HOMESTEAD

DATE: 071973 PAGES: 16 VOLS: 1 BIBNUM:000610  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: NARO IDLCS:

TREMER, CHARLES W.

THE DAVID BROWN SITE: PRELIMINARY REPORT FOR ARCHEOLOGICAL  
EXCAVATIONS, SUMMER 1970

DATE: 001970 PAGES: 16 VOLS: 1 BIBNUM:400188  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: NARO MIMA IDLCS:14011

WESTON GEOPHYSICAL CORPORATION

GEOPHYSICAL SURVEYS AT THE HARTWELL TAVERN SITE

DATE: 011980 PAGES: 38 VOLS: 1 BIBNUM:010429  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: WASO IDLCS:00931

CULTURAL RESOURCES MANAGEMENT BIBLIOGRAPHY (CRBIB)  
PARK REPORT

PAGE: 18  
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MINUTE MAN NATIONAL HISTORICAL PARK

WRENN, GEORGE L.

HSR-PART III, THE EBENEZER FISKE HOUSE, STABILIZATION OF CELLAR AND FOUNDATION

DATE: 011965 PAGES: 15 VOLS: 1 BIBNUM: 000560  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: WASO IDLCS: 00923

WRENN, GEORGE L.

HSR, PT I, ARCHITECTURAL DATA, THE JOB BROOKS HOUSE

DATE: 041964 PAGES: 2 VOLS: 1 BIBNUM: 000582  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: WASO IDLCS: 00928

ZERBEY, BENJAMIN F. AND LUZADER, JOHN F.

HSR, PT I, ADMINISTRATIVE AND HISTORICAL, THE EPHRAIM AND WILLARD BUTTRICK HOUSE

DATE: 071968 PAGES: 12 VOLS: 1 BIBNUM: 000605  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: NARO IDLCS: 00939

ZERBEY, BENJAMIN F. AND LUZADER, JOHN F.

HSR-PART I, EPHRAIM AND WILLARD BUTTRICK HOUSES

DATE: 041968 PAGES: 20 VOLS: 1 BIBNUM: 000607  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: WASO IDLCS: 00939

ZERBEY, BENJAMIN F. AND ROUSH, ROBERT D.

HSR-PART I, THE ELISHA JONES HOUSE (BULLET HOLE HOUSE)

DATE: 081965 PAGES: 7 VOLS: 1 BIBNUM: 000565  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: WASO IDLCS: 00924

ZERBEY, BENJAMIN J.

HSR-PART I, ADMINISTRATIVE DATA SECTION, THE ELISHA JONES OR BULLET HOLE HOUSE

DATE: 041968 PAGES: 18 VOLS: 1 BIBNUM: 000567  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: WASO IDLCS: 00924

ZERBEY, BENJAMIN J.

=HSR, PT I, ADMINISTRATIVE DATA, HARTWELL TAVERN

DATE: 041968 PAGES: 5 VOLS: 1 BIBNUM: 000590  
GRAPHICS: 14 MAPS 10 PRIMARY SOURCES  
13 PHOTOGRAPHS  
LOCATIONS: NARO MIMA IDLCS: 00931

CULTURAL RESOURCES MANAGEMENT BIBLIOGRAPHY (CRBIB)  
PARK REPORT

PAGE: 19  
12/07/93

MINUTE MAN NATIONAL HISTORICAL PARK

ZERBEY, BENJAMIN J.

HSR, PT I, ADMINISTRATIVE DATA, THE MAJOR JOHN BUTTRICK HOUSE

DATE: 041968 PAGES: 6

VOLS: 1

BIRNUM: 000596

GRAPHICS: 14 MAPS

10 PRIMARY SOURCES

13 PHOTOGRAPHS

LOCATIONS: NARO

IDLCS: 00932

TOTAL NUMBER OF REPORTS 127

APPENDIX F: PROJECT STATEMENTS

(PROJECT STATEMENTS BEGIN ON THE NEXT PAGE)

NOTE: The project statements are equal to 142 pages, if they are not included and you need them, please contact Dan Dattilio at (508) 369-6993.

## PROJECT STATEMENT SHEET

MIMA-C-001.000

PS Page: 0001

PROJECT NUMBER: MIMA-C-001.000

TITLE: CATALOG BACKLOG OF MUSEUM COLLECTION

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 500.00

SERVICEWIDE ISSUES: C03 MUS CATALOGING

CULTURAL RESOURCE TYPE CODE: OBJC

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

Over 150,000 artifacts need to be cataloged. Of this number almost 140,000 items are archeological, approximately 6,000 are archival materials and over 2,000 are history items. In order to improve accountability and security for the collection, this backlog must be cataloged.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Catalog the artifacts which have not been cataloged. Because of the specialized nature of some of the artifacts which must be cataloged, it would be advisable if the archeology items were cataloged by the archeology cataloging team and the archival items by the Collections Accountability Team. Due to the amount of objects which must be cataloged this project will require several years to complete.

## BUDGET AND FTEs:

| -----FUNDED----- |          |                  |      |
|------------------|----------|------------------|------|
| Source           | Act Type | Budget (\$1000s) | FTEs |
| Year 1:          |          |                  |      |
| Year 2:          |          |                  |      |
| Year 3:          |          |                  |      |
| Year 4:          |          |                  |      |
| Total:           |          | 0.00             | 0.0  |

| -----UNFUNDED----- |               |                  |      |
|--------------------|---------------|------------------|------|
| Source             | Act Type      | Budget (\$1000s) | FTEs |
| Year 1:            | SVC-OTHER RES | 500.00           | 0.0  |
| Year 2:            |               |                  |      |

Proposal Date: 94

PROJECT STATEMENT SHEET

MIMA-C-001.000

PS Page: 0002

Year 3:

Year 4:

|        |        |     |
|--------|--------|-----|
|        | =====  |     |
| Total: | 500.00 | 0.0 |

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(s): EXCL

EXPLANATION: 516 DM2 App. 2, 1.6

Proposal Date: 92

## PROJECT STATEMENT SHEET

MIMA-C-002.000

PS Page: 0003

PROJECT NUMBER: MIMA-C-002.000

TITLE: PREPARE COLLECTION CONDITION SURVEY

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 5.00

SERVICEWIDE ISSUES: C09 NEED COLL MGMT

CULTURAL RESOURCE TYPE CODE: OBJC

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

The museum collection consists of over 200,000 artifacts, including archeological, archival and historical items. Because of the diverse nature of the collection and the variety of materials from which objects are composed, the park requires a Collection Condition Survey to evaluate the condition of the museum collection.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

A professionally researched and written Collection Condition Survey of the museum collections should be completed.

## BUDGET AND FTEs:

| -----FUNDED----- |          |                  |      |
|------------------|----------|------------------|------|
| Source           | Act Type | Budget (\$1000s) | FTEs |
| Year 1:          |          |                  |      |
| Year 2:          |          |                  |      |
| Year 3:          |          |                  |      |
| Year 4:          |          |                  |      |
| Total:           |          | 0.00             | 0.0  |

| -----UNFUNDED----- |          |                  |      |     |
|--------------------|----------|------------------|------|-----|
| Source             | Act Type | Budget (\$1000s) | FTEs |     |
| Year 1:            | CRPP     | RES              | 5.00 | 0.0 |
| Year 2:            |          |                  |      |     |
| Year 3:            |          |                  |      |     |
| Year 4:            |          |                  |      |     |

Proposal Date: 92

PROJECT STATEMENT SHEET

MIMA-C-002.000

PS Page: 0004

Total:

=====

5.00

0.0

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(s): EXCL

EXPLANATION: 516 DM6 App. 7.4 B(9)

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-C-003.000  
PS Page: 0005

PROJECT NUMBER: MIMA-C-003.000

TITLE: CONDUCT A CONDITION SURVEY OF FURNITURE

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 10.00

SERVICEWIDE ISSUES: C09 NEED COLL MGMT

CULTURAL RESOURCE TYPE CODE: OBJC

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

The Collection Management Plan which was conducted in 1993 recommended that a conservation condition survey of the furniture collection be completed. When the Collection Condition Survey was conducted in 1993 the furniture collection was not emphasized.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Conservators who are specialists in the conservation of furniture should review the condition of the furniture in the collection.

## BUDGET AND FTEs:

| -----FUNDED----- |          |                  |      |
|------------------|----------|------------------|------|
| Source           | Act Type | Budget (\$1000s) | FTEs |
| Year 1:          |          |                  |      |
| Year 2:          |          |                  |      |
| Year 3:          |          |                  |      |
| Year 4:          |          |                  |      |
| Total:           |          | 0.00             | 0.0  |

| -----UNFUNDED----- |          |                  |      |
|--------------------|----------|------------------|------|
| Source             | Act Type | Budget (\$1000s) | FTEs |
| Year 1:            | CRPP     | 10.00            | 0.0  |
| Year 2:            |          |                  |      |
| Year 3:            |          |                  |      |
| Year 4:            |          |                  |      |

Proposal Date: 94

PROJECT STATEMENT SHEET

MIMA-C-003.000

PS Page: 0006

Total:

=====

10.00

0.0

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(s): EXCL

EXPLANATION: 516 DM6 APP. 7.4 B(9)

Proposal Date: 92

## PROJECT STATEMENT SHEET

MIMA-C-004.000

PS Page: 0007

PROJECT NUMBER: MIMA-C-004.000

TITLE: UPGRADE MUSEUM COLLECTION STORAGE EQUIPMENT

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 25.00

SERVICEWIDE ISSUES: C16 MUS STORAGE

CULTURAL RESOURCE TYPE CODE: OBJC

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

The Collection Condition Survey conducted in 1993 recommended that many of the cabinets used to store the museum collection be replaced. In addition the Collection Storage Plan which was completed in 1991 recommended the expansion of the museum collection storage area which would require the purchase of new cabinets and shelving.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Purchase museum quality storage equipment for the current and new storage facilities. Purchase at a minimum 9 two tiered double wide shelving units, 3 wardrobe museum cabinets, 7 wide shelving units, 3 vertical racks of varying widths, 14 standard museum cabinets and several shelving units of varying widths.

## BUDGET AND FTEs:

| -----FUNDED-----   |          |                  |      |
|--------------------|----------|------------------|------|
| Source             | Act Type | Budget (\$1000s) | FTEs |
| Year 1:            |          |                  |      |
| Year 2:            |          |                  |      |
| Year 3:            |          |                  |      |
| Year 4:            |          |                  |      |
| Total:             |          | 0.00             | 0.0  |
| -----UNFUNDED----- |          |                  |      |
| Source             | Act Type | Budget (\$1000s) | FTEs |
| Year 1: CRPP       | PRO      | 25.00            | 0.0  |
| Year 2:            |          |                  |      |

Proposal Date: 92

PROJECT STATEMENT SHEET

MIMA-C-004.000

PS Page: 0008

Year 3:

Year 4:

|        |       |     |
|--------|-------|-----|
|        | ===== |     |
| Total: | 25.00 | 0.0 |

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(s): EXCL

EXPLANATION: 516 DM6 App. 7.4 E

Proposal Date: 92

## PROJECT STATEMENT SHEET

MIMA-C-005.000

PS Page: 0009

PROJECT NUMBER: MIMA-C-005.000

TITLE: PROVIDE CONSERVATION TREATMENT FOR ARTIFACTS

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 50.00

SERVICEWIDE ISSUES: C15 CONSERV TREAT

CULTURAL RESOURCE TYPE CODE: OBJC

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

A Collection Condition Survey of the park's museum collection was conducted in 1993. Items requiring conservation treatment were identified and prioritized based on need.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Provide conservation treatment for the items identified in the Collection Condition Survey as needing treatment.

## BUDGET AND FTEs:

| -----FUNDED----- |          |                  |      |
|------------------|----------|------------------|------|
| Source           | Act Type | Budget (\$1000s) | FTEs |
| Year 1:          |          |                  |      |
| Year 2:          |          |                  |      |
| Year 3:          |          |                  |      |
| Year 4:          |          |                  |      |
| Total:           |          | 0.00             | 0.0  |

| -----UNFUNDED----- |          |                  |       |     |
|--------------------|----------|------------------|-------|-----|
| Source             | Act Type | Budget (\$1000s) | FTEs  |     |
| Year 1:            | CRPP     | MIT              | 50.00 | 0.0 |
| Year 2:            |          |                  |       |     |
| Year 3:            |          |                  |       |     |
| Year 4:            |          |                  |       |     |
| Total:             |          | 50.00            | 0.0   |     |

Proposal Date: 92

PROJECT STATEMENT SHEET

MIMA-C-005.000

PS Page: 0010

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(s): EXCL

EXPLANATION: 516 DM6 App. 7.4 E

Proposal Date: 92

## PROJECT STATEMENT SHEET

MIMA-C-006.000

PS Page: 0011

PROJECT NUMBER: MIMA-C-006.000

TITLE: PREPARE COLLECTION MANAGEMENT PLAN

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 2.00

SERVICEWIDE ISSUES: C09 NEED COLL MGMT

CULTURAL RESOURCE TYPE CODE: OBJC

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

The museum collection numbers over 200,00 artifacts. It is a diverse collection consisting of archeological, historical and archival materials which are stored in two buildings and exhibited in four. The park needs a Collection Management Plan, as required by NPS-28, to guide it in caring for the collection.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

A professionally researched and written Collections Management Plan for the museum collections should be prepared.

## BUDGET AND FTEs:

| -----FUNDED-----   |        |          |                  |      |
|--------------------|--------|----------|------------------|------|
|                    | Source | Act Type | Budget (\$1000s) | FTEs |
| Year 1:            |        |          |                  |      |
| Year 2:            |        |          |                  |      |
| Year 3:            |        |          |                  |      |
| Year 4:            |        |          |                  |      |
| Total:             |        |          | 0.00             | 0.0  |
| -----UNFUNDED----- |        |          |                  |      |
|                    | Source | Act Type | Budget (\$1000s) | FTEs |
| Year 1:            | CRPP   | RES      | 2.00             | 0.0  |
| Year 2:            |        |          |                  |      |
| Year 3:            |        |          |                  |      |
| Year 4:            |        |          |                  |      |

Proposal Date: 92

PROJECT STATEMENT SHEET

MIMA-C-006.000  
PS Page: 0012

Total: 2.00 0.0

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(s): EXCL

EXPLANATION: 516 DM6 App. 7.4 B

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-C-007.000

PS Page: 0013

PROJECT NUMBER: MIMA-C-007.000

TITLE: CONDUCT A CONDITION SURVEY OF TEXTILES

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 10.00

SERVICEWIDE ISSUES: C09 NEED COLL MGMT

CULTURAL RESOURCE TYPE CODE: OBJC

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

The Collection Management Plan which was conducted in 1993 recommended that a conservation condition survey of the textile collection be done. When the Collection Condition Survey was conducted in 1993 the textile collection was not emphasized.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Conservators who are specialists in the conservation of textiles should review the condition of all the textiles in the collection.

## BUDGET AND FTEs:

| -----FUNDED-----   |        |          |                  |      |
|--------------------|--------|----------|------------------|------|
|                    | Source | Act Type | Budget (\$1000s) | FTEs |
| Year 1:            |        |          |                  |      |
| Year 2:            |        |          |                  |      |
| Year 3:            |        |          |                  |      |
| Year 4:            |        |          |                  |      |
|                    |        | Total:   | 0.00             | 0.0  |
| -----UNFUNDED----- |        |          |                  |      |
|                    | Source | Act Type | Budget (\$1000s) | FTEs |
| Year 1:            | CRPP   | PRO      | 10.00            | 0.0  |
| Year 2:            |        |          |                  |      |
| Year 3:            |        |          |                  |      |
| Year 4:            |        |          |                  |      |

Proposal Date: 94

PROJECT STATEMENT SHEET

MIMA-C-007.000

PS Page: 0014

Total:

=====

10.00

0.0

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(s): EXCL

EXPLANATION: 516 DM6 APP. 7. 4 B(9)

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-C-008.000

PS Page: 0015

PROJECT NUMBER: MIMA-C-008.000

TITLE: DETERMINE AIR QUALITY EFFECTS ON CULTURAL RESOURCES

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 3.00

SERVICEWIDE ISSUES: N14 AIR POLLUTION C12 PRESERVE MGMT

CULTURAL RESOURCE TYPE CODE: OBJC

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

MIMA lies in a highly developed area which possesses, in large quantity, many sources known to contribute to poor air quality, motor vehicles and industry. The park has no baseline data concerning the deleterious effects, if any, of local air quality on its statuary and other monuments. These resources, including the 1875 Minute Man statue in Concord, are constructed mostly of bronze and may be prone to air quality-induced damage. This possibility needs to be investigated in order to plan appropriate mitigation efforts, insuring resource preseveration.

The park does not possess the expertise, FTE or funding to accomplish this study on its own.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Conduct a study to determine baseline condition of park monuments and determine if local air quality is contributory to resource deterioration, such as might be the case with acid rain. Work with appropriate NPS cultural resource preservation personnel to design and implement such a study and/or award same, in the form of a contract, to a university or private sector research firm. Obtain site-specific air quality information from the EPA Laboratory, Ambient Air Quality and Emissions Monitoring Section in Lexington. Detail research findings in a report and make recommendations for any necessary mitigation.

## BUDGET AND FTEs:

| -----FUNDED----- |          |                  |      |
|------------------|----------|------------------|------|
| Source           | Act Type | Budget (\$1000s) | FTEs |
| Year 1:          |          |                  |      |
| Year 2:          |          |                  |      |
| Year 3:          |          |                  |      |
| Year 4:          |          |                  |      |

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-C-008.000

PS Page: 0016

|        |      |     |
|--------|------|-----|
| Total: | 0.00 | 0.0 |
|--------|------|-----|

| -----UNFUNDED----- |           |          |                  |      |
|--------------------|-----------|----------|------------------|------|
|                    | Source    | Act Type | Budget (\$1000s) | FTEs |
| Year 1:            | TEMP\$-CR | RES      | 3.00             | 0.0  |
| Year 2:            |           |          |                  |      |
| Year 3:            |           |          |                  |      |
| Year 4:            |           |          |                  |      |

|        |      |     |
|--------|------|-----|
| Total: | 3.00 | 0.0 |
|--------|------|-----|

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(s): EXCL

EXPLANATION: 516 DM2 App. 2, 1.6

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-C-010.000  
PS Page: 0017

PROJECT NUMBER: MIMA-C-010.000

TITLE: UPGRADE ELECTRICAL SERVICE - NORTH BRIDGE VIS. CEN.

FUNDING STATUS: FUNDED: 25.00 UNFUNDED: 75.00

SERVICEWIDE ISSUES: C13 REHAB/RESTORAT C26 OTHER

CULTURAL RESOURCE TYPE CODE: STRC

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

The present electrical system at the North Bridge Visitor Center (Buttricks Mansion) is severely overloaded. The building presently houses the all offices and administrative personnel for the park. The buildings electrical system was not designed for this increase in usage resulting in the constant resetting of circuit breakers and occasional brownouts of building areas. The problem will only worsen as more computers and staffing are added to the workspace. This is a potentially hazardous and unsafe situation. This system is critically overloaded and must be addressed. Failure to correct this problem will increase risk of fire.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

The electrical system at the North Bridge Visitor Center (Buttricks Mansion) needs immediate upgrading in the form of additional service/power and redistribution of lines and breakers throughout the work space.

## BUDGET AND FTES:

| -----FUNDED----- |               |                  |      |
|------------------|---------------|------------------|------|
| Source           | Act Type      | Budget (\$1000s) | FTES |
| Year 1:          | REP-REHAB RES | 25.00            | 0.0  |
| Year 2:          |               |                  |      |
| Year 3:          |               |                  |      |
| Year 4:          |               |                  |      |
| Total:           |               | 25.00            | 0.0  |

| -----UNFUNDED----- |          |                  |      |
|--------------------|----------|------------------|------|
| Source             | Act Type | Budget (\$1000s) | FTES |

Proposal Date: 94

PROJECT STATEMENT SHEET

MIMA-C-010.000

PS Page: 0018

|         |               |       |     |
|---------|---------------|-------|-----|
| Year 1: | REP-REHAB MIT | 75.00 | 0.0 |
| Year 2: |               |       |     |
| Year 3: |               |       |     |
| Year 4: |               |       |     |

|        |       |       |     |
|--------|-------|-------|-----|
| Total: | ===== | 75.00 | 0.0 |
|--------|-------|-------|-----|

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(s): 106

EXPLANATION:

Proposal Date: 92

## PROJECT STATEMENT SHEET

MIMA-C-011.000

PS Page: 0019

PROJECT NUMBER: MIMA-C-011.000

TITLE: INSTALL NEW ROOF - CARETAKERS HOUSE/MAINT BARN

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 0.00

SERVICEWIDE ISSUES: C13 REHAB/RESTORAT

CULTURAL RESOURCE TYPE CODE: STRC

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

The roofs for both the Caretakers House (now the Cultural Resource center) and the Maintenance Barn are asbestos shingled. These roofs are well past their life expectancy and are deteriorating, with cracked and missing shingles. Temporary patching has been performed several times to both structures to repair active leaks. The historic fabric of both buildings and the collections it houses will be severely jeopardized if these roofs are not replaced. The present condition of the shingles will prohibit future patching from being effective.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

The two roofs need to be stripped completely and transported by a certified hazardous waste carrier to an approved EPA dump site. All roof shingles and flashing should be replaced with compatible materials. All gutters should be reset to receive roof runoff and for proper pitch.

## BUDGET AND FTEs:

| -----FUNDED----- |          |                  |      |
|------------------|----------|------------------|------|
| Source           | Act Type | Budget (\$1000s) | FTEs |
| Year 1:          |          |                  |      |
| Year 2:          |          |                  |      |
| Year 3:          |          |                  |      |
| Year 4:          |          |                  |      |
| Total:           |          | 0.00             | 0.0  |

| -----UNFUNDED----- |          |                  |      |
|--------------------|----------|------------------|------|
| Source             | Act Type | Budget (\$1000s) | FTEs |
| Year 1:            |          |                  |      |

Proposal Date: 92

# PROJECT STATEMENT SHEET

MIMA-C-011.000

PS Page: 0020

Year 2:

Year 3:

Year 4:

Total:

0.00

0.0

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(S): 106

EXPLANATION:

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-C-012.000

PS Page: 0021

PROJECT NUMBER: MIMA-C-012.000

TITLE: STAB FOUND/STRUCT WALL-REPL HEAT PLANT - PERRY HSE

FUNDING STATUS: FUNDED: 40.00 UNFUNDED: 50.00

SERVICEWIDE ISSUES: C13 REHAB/RESTORAT

CULTURAL RESOURCE TYPE CODE: STRC

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

The Minot (Perry) House, a National Register property along the Battle road, is being prepared for leasing to farmers along with parcels of land under the Historic Leasing program as part of the cultural landscape management initiative. The foundation of the structure has deteriorated in several areas, the most acute problem is failure of the brick load-bearing section on the west side which has blown out and the load bearing interior partition wall which is in need of stabilization. The heating plant is an old asbestos covered, coal converted furnace which is no longer operational and needs immediate replacement and rezoning to accommodate the new apartments. The roof and flashing is well past its life expectancy and needs immediate replacement. These items are crucial before the leasing program can go forward.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

The roof and heating plant are in need of immediate replacement. The roof replacement is needed to insure that the structure remains water tight thus eliminating possible future damage to the historic fabric. The heating plant and piping needs to be replaced in order for the park to allow the property to be leased. The foundation needs to be temporarily shored up, and then the bricks dismantled, reset and the area regraded. The interior wall needs to be opened up and key structural members reinforced. All asbestos piping and equipment needs to be removed, and lead paint mitigated to a height of five feet or to state regulations. Once this work is completed the safety of the historic fabric, and the course of the Historic Property leasing will be assured.

## BUDGET AND FTEs:

|         | Source        | Act Type | Budget (\$1000s) | FTEs |
|---------|---------------|----------|------------------|------|
| Year 1: | REP-REHAB MIT |          | 40.00            | 0.0  |
| Year 2: |               |          |                  |      |

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-C-012.000

PS Page: 0022

Year 3:

Year 4:

|        |       |     |
|--------|-------|-----|
| Total: | 40.00 | 0.0 |
|--------|-------|-----|

-----UNFUNDED-----

|         | Source    | Act Type | Budget (\$1000s) | FTEs |
|---------|-----------|----------|------------------|------|
| Year 1: | REP-REHAB | MIT      | 50.00            | 0.0  |

Year 2:

Year 3:

Year 4:

|        |       |     |
|--------|-------|-----|
| Total: | 50.00 | 0.0 |
|--------|-------|-----|

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(s): 106

EXPLANATION:

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-C-013.000

PS Page: 0023

PROJECT NUMBER: MIMA-C-013.000

TITLE: STABILIZATION/REHAB - MERRIAM HOUSE AND GROUNDS

FUNDING STATUS: FUNDED: 295.00 UNFUNDED: 1300.00

SERVICEWIDE ISSUES: C13 REHAB/RESTORAT C05 NEED HSRS

CULTURAL RESOURCE TYPE CODE: SITE

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

The Merriam house, which is on the List of Classified Structures as well as on the National register, is defined in the GMP as a future visitor contact area. The park has obtained ownership of this structure this year and it is in need of stabilization and restoration. It is one of the parks best examples of of 18th and 19th century archtitecture that still maintains most of its original integrity. The exterior envelope (roof, clapboards, flashing) needs immediate attention to make it weathertight, as well as stabilization of structural members (sill, floor joists). This work is needed to correct the years of neglect under private ownweship and to insure no damage to the historic fabric from envelope/structural failure. A comprehensive HSR and Cultural landscape plan is also needed.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Stabilize the exterior envelope through roof and flashing replacement, reconstruction of window sashes, repair and painting of clapboards. Stabilize the structural elements through sill and joist replacement/repair for specified areas. Develop an HSR to define the scope of preservation work. Develop a Cultural landscape Plan to define the scope of landscape restoration needed for the site.

## BUDGET AND FTEs:

|         | Source     | Act Type | Budget (\$1000s) | FTEs |
|---------|------------|----------|------------------|------|
| Year 1: | SPECIAL-\$ | RES      | 295.00           | 0.0  |
| Year 2: |            |          |                  |      |
| Year 3: |            |          |                  |      |
| Year 4: |            |          |                  |      |

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-C-013.000

PS Page: 0024

Total: 295.00 0.0

-----UNFUNDED-----

|         | Source    | Act Type | Budget (\$1000s) | FTEs |
|---------|-----------|----------|------------------|------|
| Year 1: |           |          |                  |      |
| Year 2: | CONSTRUCT | RES      | 200.00           | 0.0  |
| Year 3: | CONSTRUCT | MIT      | 1100.00          | 0.0  |
| Year 4: |           |          |                  |      |

Total: 1300.00 0.0

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(s): 106

EXPLANATION:

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-C-014.000

PS Page: 0025

PROJECT NUMBER: MIMA-C-014.000

TITLE: INTERIOR/EXTERIOR REPAIR - NOAH BROOKS TAVERN

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 250.00

SERVICEWIDE ISSUES: C13 REHAB/RESTORAT C05 NEED HSRS

CULTURAL RESOURCE TYPE CODE: STRC

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

The museum storage section of the Noah Brooks Tavern has had severe water infiltration into the second story storage area. The plaster in several rooms along both ceiling and walls have been water soaked and are currently seperated from the lath. The roof and fascia trim boards need replacement to assure a weather tight shell before interior repairs can be performed. Future leaks will jeopardize the remaining historic fabric and collections stored within the structure. There is possible post/girt movement where the two story museum section ties into the kitchen wing (currently quarters).

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Roof and flashing replacement is necessary to prevent future water infiltration. The fascia and trim boards need replacement. The interior needs lath replacement, replastering and paint. An engineering study should be performed to detect the cause of the post/girt movement on the east side of the building. An HSR is needed to guide all restoration work.

## BUDGET AND FTEs:

| -----FUNDED----- |          |                  |      |
|------------------|----------|------------------|------|
| Source           | Act Type | Budget (\$1000s) | FTEs |
| Year 1:          |          |                  |      |
| Year 2:          |          |                  |      |
| Year 3:          |          |                  |      |
| Year 4:          |          |                  |      |
| Total:           |          | 0.00             | 0.0  |

| -----UNFUNDED----- |          |                  |      |
|--------------------|----------|------------------|------|
| Source             | Act Type | Budget (\$1000s) | FTEs |

Proposal Date: 94

# PROJECT STATEMENT SHEET

MIMA-C-014.000  
PS Page: 0026

|         |               |        |     |
|---------|---------------|--------|-----|
| Year 1: | REP-REHAB MIT | 250.00 | 0.0 |
| Year 2: |               |        |     |
| Year 3: |               |        |     |
| Year 4: |               |        |     |

|        |       |        |     |
|--------|-------|--------|-----|
| Total: | ===== | 250.00 | 0.0 |
|--------|-------|--------|-----|

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(S): 106

EXPLANATION:

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-C-015.000

PS Page: 0027

PROJECT NUMBER: MIMA-C-015.000

TITLE: STRUCTURAL REPAIRS - SAMUAL BROOKS HOUSE

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 75.00

SERVICEWIDE ISSUES: C13 REHAB/RESTORAT C05 NEED HSRS

CULTURAL RESOURCE TYPE CODE: STRC

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

This historic structures is used for seasonal housing as identified by the GMP. It is on the List of Classified Structures and on the National Register. The south wall and shed components of the Sam Brooks house are not sound and need to be addressed to assure that no damage due to structural failure would occur.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Inspection, repair and replacement of structural members in the basement of the Joshua Brooks house. This includes repair/replacement of sill sections and floor joists as well as easar wall stud components. The Sam Brooks includes inspection of the south wall deflection and replacement of wall components necessary for stabilization, and repair of storage shed foundation, sill, floor and wall components.

## BUDGET AND FTEs:

| -----FUNDED----- |          |                  |      |
|------------------|----------|------------------|------|
| Source           | Act Type | Budget (\$1000s) | FTEs |
| Year 1:          |          |                  |      |
| Year 2:          |          |                  |      |
| Year 3:          |          |                  |      |
| Year 4:          |          |                  |      |
| Total:           |          | 0.00             | 0.0  |

| -----UNFUNDED----- |               |                  |      |
|--------------------|---------------|------------------|------|
| Source             | Act Type      | Budget (\$1000s) | FTEs |
| Year 1:            | REP-REHAB MIT | 75.00            | 0.0  |
| Year 2:            |               |                  |      |

Proposal Date: 94

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PS Page: 0028

Year 3:

Year 4:

Total:

=====

75.00

0.0

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(s): 106

EXPLANATION:

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-C-016.000

PS Page: 0029

PROJECT NUMBER: MIMA-C-016.000

TITLE: UPGRADE HEATING/COOLING SYSTEM - SQUASH COURT

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 30.00

SERVICEWIDE ISSUES: C16 MUS STORAGE

CULTURAL RESOURCE TYPE CODE: STRC

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

The Squash Court is an area that is part of the Buttrick Carriage House which is set aside for Curatorial storage. The area consists of two 15 X 20 foot rooms which house a wide range of curatorial and archeological artifacts. The collection storage plan, approved in June 1991, stipulates that the artifacts presently located in the lower squash court, (textiles, photographs and other history items), will be moved to the upper squash court area. (The present upper squash court artifacts will be moved to the Job Brooks facility when completed in 1993.) The two rooms of furniture now located at Noah Brooks Tavern will be moved to the lower squash court. The lower storage room has an undersized heating plant and no humidity control resulting in inadequate temperature/humidity control. The upper storage room has no heating, cooling or humidity system in place. The temperatures are too hot in summer and too cold in winter. While the excessive temperature and humidity changes could be tolerated by the present archeology collection, when the archives and history collections are moved to the second floor these temperatures will be unacceptable.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Installation of a heating/cooling system for both squash court storage rooms. These units should possess sufficient BTU output to maintain full temperature range requirements for these size rooms. The units should also possess humidistat controls for regulating room humidity in conjunction with heating and cooling.

The building that houses the Squash Court also houses maintenance activities. The air handling system will need to be equipped with a filtration system capable of handling gaseous, as well as particulate, air pollutants. Application of rigid insulation and vapor barriers to the interior walls and ceiling should also be part of the heating system installation process.

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-C-016.000

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## BUDGET AND FTEs:

-----FUNDED-----  
Source      Act Type      Budget (\$1000s)      FTEs

Year 1:

Year 2:

Year 3:

Year 4:

Total:

0.00

0.0

-----UNFUNDED-----  
Source      Act Type      Budget (\$1000s)      FTEs

Year 1:      REP-REHAB MIT

30.00

0.0

Year 2:

Year 3:

Year 4:

Total:

30.00

0.0

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(s): NHPA

EXPLANATION:

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-C-017.000  
PS Page: 0031

PROJECT NUMBER: MIMA-C-017.000

TITLE: STRUCTURAL REPAIRS - DANIEL TAYLOR HOUSE

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 150.00

SERVICEWIDE ISSUES: C13 REHAB/RESTORAT C05 NEED HSRS

CULTURAL RESOURCE TYPE CODE: STRC

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

There are several structural problems that need to be addressed in this historic structure which is on the National Register and LCS. Sections of sill and wall components are rotted and show moderate deflection. There is also severe pest infiltration within this structure in the form of rodents and carpenter ants. Their access into the structure and damage created needs immediate attention. This structure is used as an employee residence and as a result the concern for health and safety of park residents is of paramount importance. These structural and pest problems need to be addressed before historic fabric and integrity is lost and park employees are put at risk.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

An Engineering study of this historic structure should be the first step to analyze the structural stability/integrity of sill, wall and beam components. Simultaneously, an Integrated Pest Management Plan should be developed to mitigate the pest access and damage. A comprehensive rehabilitation plan should incorporate both the engineering and IPM recommendations and be implemented to stabilize this structure.

## BUDGET AND FTEs:

| -----FUNDING----- |          |                  |      |
|-------------------|----------|------------------|------|
| Source            | Act Type | Budget (\$1000s) | FTEs |
| Year 1:           |          |                  |      |
| Year 2:           |          |                  |      |
| Year 3:           |          |                  |      |
| Year 4:           |          |                  |      |
| Total:            |          | 0.00             | 0.0  |

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-C-017.000

PS Page: 0032

| -----UNFUNDED----- |               |          |                  |      |
|--------------------|---------------|----------|------------------|------|
|                    | Source        | Act Type | Budget (\$1000s) | FTEs |
| Year 1:            | REP-REHAB MIT |          | 150.00           | 0.0  |
| Year 2:            |               |          |                  |      |
| Year 3:            |               |          |                  |      |
| Year 4:            |               |          |                  |      |
| Total:             |               |          | 150.00           | 0.0  |

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(s): 106

EXPLANATION:

Proposal Date: 94

PROJECT STATEMENT SHEET

MIMA-C-018.000

PS Page: 0033

PROJECT NUMBER: MIMA-C-018.000

TITLE: HISTORIC GROUNDS REPORT - NORTH BRIDGE AREA

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 50.00

SERVICEWIDE ISSUES: C11 CULT LAND REPT

CULTURAL RESOURCE TYPE CODE: SITE

10-238 PACKAGE NUMBER:

PROBLEM STATEMENT:

For more than 150 years, the grounds around the Battle Monument, and later the North Bridge and Minute Man Statue, have been treated in a commemorative manner. In order to preserve their appearance for future generations, research and work are needed now.

Prior to any changes, research is needed to determine the historic appearance of the area. Of particular interest are the plantings of trees parallel to Monument Street and down to the Battle Monument and Bridge, the installation of an iron fence around the Minute Man Statue, and the evolution of the plantings close to the Bridge and Statue. Researching 19th and 20th century photographs, postcards and writings should provide this information.

Knowledge of the historic treatment of the area will enable management to make careful and wise decisions. Handicapped access is needed from Monument Street to the Bridge: the grounds report will provide information about the age of the trees and walls and suggest solutions which will meet current needs while preserving important resources. Similarly, decisions to improve the present walkway surface, and minimize erosion problems, can be made in light of the historic treatment of the surface.

Phase II (drawing and specifications) and Phase III (implementation - construction) are dependent on this project the following year.

DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Development and implementation of a historic grounds report to guide future landscape and structural work for this area. Develop Phase 2 drawings and specifications. Implement recommendations through construction and landscape treatments (Phase 3).

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-C-018.000

PS Page: 0034

## BUDGET AND FTEs:

-----FUNDED-----  
Source      Act Type      Budget (\$1000s)      FTEs

Year 1:

Year 2:

Year 3:

Year 4:

=====

|        |      |     |
|--------|------|-----|
| Total: | 0.00 | 0.0 |
|--------|------|-----|

-----UNFUNDED-----  
Source      Act Type      Budget (\$1000s)      FTEs

|         |               |       |     |
|---------|---------------|-------|-----|
| Year 1: | REG-OTHER RES | 10.00 | 0.0 |
|---------|---------------|-------|-----|

|         |               |       |     |
|---------|---------------|-------|-----|
| Year 2: | REG-OTHER MIT | 40.00 | 0.0 |
|---------|---------------|-------|-----|

Year 3:

Year 4:

=====

|        |       |     |
|--------|-------|-----|
| Total: | 50.00 | 0.0 |
|--------|-------|-----|

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(s): 106

EXPLANATION:

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-C-019.000

PS Page: 0035

PROJECT NUMBER: MIMA-C-019.000

TITLE: EROSION CONTROL - NORTH BRIDGE WALKWAY

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 50.00

SERVICEWIDE ISSUES: C10 SPECIAL STUDY

CULTURAL RESOURCE TYPE CODE: CULL

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

This package is intended to provide the park with a comprehensive engineering study that addresses a historically significant site within the park. The Old North Bridge is a heavily visited and well recognized historic site. It is also part of a sensitive natural area bounding the Concord River on the south and north side. The existing trail leading to the Old North Bridge currently experiences serious erosion problems after rainstorms. This leads to the transport and deposit of large quantities of surface material into the Concord River. This also causes a serious safety problem due to the size of the erosion ditches that form. The park has already experienced one tort claim for an injury due to this problem because of heavy visitor use of this trail to the bridge. This problem has never been addressed long term, but always with a patch and fill approach which has led to the severe silt runoff into the river and dangerous walking conditions after storms. It is time that this problem was addressed through an engineering study, with repair work on this study.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Provide the park with an engineering study/repair work of the trail to the North Bridge that lies between Monument Street and the Old North Bridge. This would entail: 1. Identification of existing trail and shoulder surface problems; 2. Production of drawings, specifications and cost estimates to rectify surface and shoulder erosion; 3. Recommendations and cost estimates to correct shoulder-to-trail grade imbalance; 4. Repair work to the North Bridge Trail based on approved engineering specifications; 5. Landscaping/restoration of ground cover on shoulder surface.

## BUDGET AND FTEs:

| -----FUNDED----- |          |                  |      |
|------------------|----------|------------------|------|
| Source           | Act Type | Budget (\$1000s) | FTEs |

Year 1:

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-C-019.000

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Year 2:

Year 3:

Year 4:

|        |      |     |
|--------|------|-----|
| Total: | 0.00 | 0.0 |
|--------|------|-----|

-----UNFUNDED-----

|         | Source    | Act Type | Budget (\$1000s) | FTEs |
|---------|-----------|----------|------------------|------|
| Year 1: | REG-OTHER | RES      | 15.00            | 0.0  |
| Year 2: | REG-OTHER | MIT      | 35.00            | 0.0  |
| Year 3: |           |          |                  |      |
| Year 4: |           |          |                  |      |

|        |       |     |
|--------|-------|-----|
| Total: | 50.00 | 0.0 |
|--------|-------|-----|

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(s): 106

EXPLANATION:

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-C-020.000

PS Page: 0037

PROJECT NUMBER: MIMA-C-020.000

TITLE: PREPARE &amp; IMPLEMENT DRAINAGE PLAN - WAYSIDE GROUNDS

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 15.00

SERVICEWIDE ISSUES: C10 SPECIAL STUDY C12 PRESERVE MGMT

CULTURAL RESOURCE TYPE CODE: CULL

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

The Wayside is a central focal point in the Interpretative and Historical theme of Minute Man NHP. This historic structure, which is on the National Register and LCS, has a severe drainage problem on the north side due to an abutting hillside. The drainage problem allows water infiltration into the foundation and over time will undermine sections of the foundation if not corrected. This problem was documented over 10 years ago by the Preservation Lab with structural reinforcement performed to the foundation but with no action taken to mitigate the drainage problem.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Perform a grade survey to establish reference points and produce a detailed map of the north side with these reference points. Research, develop and implement a drainage system compatible with archeological compliance and with the historic landscape to handle and disperse the water volumn.

## BUDGET AND FTEs:

| -----FUNDED-----   |     |      |                  |      |
|--------------------|-----|------|------------------|------|
| Source             | Act | Type | Budget (\$1000s) | FTEs |
| Year 1:            |     |      |                  |      |
| Year 2:            |     |      |                  |      |
| Year 3:            |     |      |                  |      |
| Year 4:            |     |      |                  |      |
| Total:             |     |      | 0.00             | 0.0  |
| -----UNFUNDED----- |     |      |                  |      |
| Source             | Act | Type | Budget (\$1000s) | FTEs |

Proposal Date: 94

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|         |               |       |     |
|---------|---------------|-------|-----|
| Year 1: | REG-OTHER RES | 5.00  | 0.0 |
| Year 2: | REG-OTHER MIT | 10.00 | 0.0 |
| Year 3: |               |       |     |
| Year 4: |               |       |     |

|        |       |     |
|--------|-------|-----|
| Total: | ===== |     |
|        | 15.00 | 0.0 |

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(s): 106

EXPLANATION:

Proposal Date: 94

PROJECT NUMBER: MIMA-C-021.000

TITLE: UPGRADE FACILITIES AND STRUCTURE- WAYSIDE BARN-BRVC

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 300.00

SERVICEWIDE ISSUES: C13 REHAB/RESTORAT

CULTURAL RESOURCE TYPE CODE: STRC

10-238 PACKAGE NUMBER:

PROBLEM STATEMENT:

The Wayside Barn is an historic structure that has been adaptively reused as a Visitor Center for the Wayside Site. The building presently houses exhibits, information and restroom facilities and will be undergoing a major exhibit rehabilitation. The roof on this structure is failing as evidenced by cupped and moss covered shingles. There is no handicap accessibility and the heating system is non-functional. Utilities such as heating/cooling system, electrical, lighting and handicap accessibility need to be addressed to insure building integrity and adequate exhibit facilities.

The BRVC is a modern structure that serves as a visitor center and will also be undergoing a major exhibit rehabilitation. The roof is failing and the heating/cooling system is original to the 1975 building with cooling system non-operational. Lighting and other essential components need to be upgraded to accommodate new exhibits.

DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Develop plans and specifications for the following and implement.

1. Wayside Barn - Upgrade climate control system, lighting, replace carpets and provide handicap accessibility. The heating system is simple electric baseboard, and the air conditioning system has undergone numerous repairs and is currently functioning on only one condensor. Because there are no windows this system needs to function efficiently and reliably for the upcoming exhibits. The lighting will need to be upgraded in order to adequately illuminate the new exhibits. The current lighting can not meet those needs. Handicap accessibility needs to be planned and implemented. This building has been adaptively reused and accessibility of remodeled structures is a NPS priority. The approach, entrance, interior layout and bathrooms all need to be addressed. The roof on the Wayside Barn is well past its life expectancy. The cedar shingles are deteriorating, and the roof flashing, ridge board and other roof components need to be addressed before water intrusion occurs. The park has performed

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## PROJECT STATEMENT SHEET

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temporary repairs to stop potential water seepage and to extend the life of the roof until funding is acquired.

2. BRVC - Upgrade climate control system and lighting. The existing cube lighting is not capable of illuminating the large area that the exhibits and audiovisual will occupy. A new lighting design needs to be layed out and implemented. The current A/C system does not function, allowing for no ventilation or temperature control. The A/C needs to be repaired/replaced and the heating system upgraded in order to provide an adequate enviornment for the public and the new exhibits. The BRVC has an antiquated and ineffecient heating system which no longer meets the needs of the Battle Road Visitor Center, and has been a focus of visitor and staff complaints. This system can no longer adequately heat or cool the space as it was designed to do. The roof to this structure is the original roof that dates to 1976. The cedar shake roof has met its life expectancy. This is evident by the amount of deterioration and cracking that has occurred to these roof components. Roof replacement will be needed as part of this building upgrade.

## BUDGET AND FTEs:

| -----FUNDED----- |          |                  |      |
|------------------|----------|------------------|------|
| Source           | Act Type | Budget (\$1000s) | FTEs |
| Year 1:          |          |                  |      |
| Year 2:          |          |                  |      |
| Year 3:          |          |                  |      |
| Year 4:          |          |                  |      |
| Total:           |          | 0.00             | 0.0  |

| -----UNFUNDED----- |               |                  |      |
|--------------------|---------------|------------------|------|
| Source             | Act Type      | Budget (\$1000s) | FTEs |
| Year 1:            | REP-REHAB RES | 75.00            | 0.0  |
| Year 2:            | REP-REHAB MIT | 225.00           | 0.0  |
| Year 3:            |               |                  |      |
| Year 4:            |               |                  |      |
| Total:             |               | 300.00           | 0.0  |

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

Proposal Date: 94

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COMPLIANCE CODE(s): 106

EXPLANATION:

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-C-022.000

PS Page: 0042

PROJECT NUMBER: MIMA-C-022.000

TITLE: COMPLETE HSR/HISTORIC GROUNDS REPORT - 23 STRUC.

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 75.00

SERVICEWIDE ISSUES: C05 NEED HSRS C11 CULT LAND REPT

CULTURAL RESOURCE TYPE CODE: COMB

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

The park's GMP calls for the restoration, preservation, and/or rehabilitation of the park's historic structures as listed in tables 2 and 3 (pp 40, 48). This structure requires an historic structures report or similar document to determine appropriateness of proposed treatment and uses. Actions resulting in ground disturbance, including foundation work, utility lines, parking, etc., require archeological evaluation. Site improvements, including walkways, plantings, etc., should blend into and enhance the historic character of the site, and replicate, where possible, known historic conditions. Historic areas are identified on the National Register forms, and in the GMP. Complete studies for accessibility to the structure by disabled employees/visitors should be addressed. Presently the park is performing the necessary maintenance to handle emergency repairs with CRC input. This crisis management approach is currently being replaced with a preventive maintenance program of inspections and programmed work. In order for this type of program to succeed a treatment document needs to be forthcoming in the immediate future.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Develop an HSR and a Cultural Landscape Plan to evaluate and guide all future structure and landscape work. This will provide a factual base in which to make management decisions work in the maintenance and treatment of these sites.

## BUDGET AND FTES:

-----FUNDED-----  
Source Act Type Budget (\$1000s) FTES

Year 1:

Year 2:

Year 3:

Proposal Date: 94

## PROJECT STATEMENT SHEET

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Year 4:

|        |      |     |
|--------|------|-----|
| Total: | 0.00 | 0.0 |
|--------|------|-----|

| -----UNFUNDED----- |               |                  |      |
|--------------------|---------------|------------------|------|
| Source             | Act Type      | Budget (\$1000s) | FTEs |
| Year 1:            | REG-OTHER RES | 75.00            | 0.0  |

Year 2:

Year 3:

Year 4:

|        |       |     |
|--------|-------|-----|
| Total: | 75.00 | 0.0 |
|--------|-------|-----|

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(s): 106

EXPLANATION:

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-C-023.000

PS Page: 0044

PROJECT NUMBER: MIMA-C-023.000

TITLE: CONDUCT ROCKWALL STUDY-STABILIZE WALLS PARKWIDE

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 4.50

SERVICEWIDE ISSUES: C13 REHAB/RESTORAT

CULTURAL RESOURCE TYPE CODE: STRC

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

The pervasive rock walls are a significant element of the historic scene and cultural landscape throughout Minute Man NHP and represent a significant archeological resource as well. Presently there is no comprehensive database describing the park's rock wall resources. Most rock walls throughout the park have a deteriorating and neglected appearance, which has contributed to their depletion due to theft. However, since there are significant portions of rock walls left, there is a good opportunity to preserve, and in some cases restore, this significant cultural resource.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Develop base line data regarding the condition, characteristics and age of rock walls. The information will be used to establish priorities and investigate solutions to rock wall preservation and restoration problems. Techniques have been developed for dating rock walls, thus determining the age of rock walls. Photographic and documented evidence will also be collected and all the information will be used to generate a report, management options, and a model for other rock preservation and restoration projects in similar situations. Once working models are established from this research, it is imperative to begin the stabilization of these rock walls before they risk further deterioration and theft. Minute Man NHP received approximately \$17,000 during FY'91 to begin the landscape management development process and \$30,000 during FY'91 for developing cover maps using a GIS database. A rock wall study, management and restoration plan relates directly to this project.

## BUDGET AND FTEs:

-----FUND-----

| Source | Act | Type | Budget (\$1000s) | FTEs |
|--------|-----|------|------------------|------|
|--------|-----|------|------------------|------|

Year 1:

Year 2:

Proposal Date: 94

## PROJECT STATEMENT SHEET

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PS Page: 0045

Year 3:

Year 4:

|        |      |     |
|--------|------|-----|
| Total: | 0.00 | 0.0 |
|--------|------|-----|

| -----UNFUNDED----- |           |          |                  |      |
|--------------------|-----------|----------|------------------|------|
|                    | Source    | Act Type | Budget (\$1000s) | FTEs |
| Year 1:            | REP-REHAB | RES      | 4.50             | 0.0  |

Year 2:

Year 3:

Year 4:

|        |      |     |
|--------|------|-----|
| Total: | 4.50 | 0.0 |
|--------|------|-----|

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(s): 106

EXPLANATION:

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-C-024.000

PS Page: 0046

PROJECT NUMBER: MIMA-C-024.000

TITLE: DEVELOP &amp; IMPLEMENT CULT LANDSCAPE PLAN-WAYSIDE GRD

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 30.00

SERVICEWIDE ISSUES: C11 CULT LAND REPT

CULTURAL RESOURCE TYPE CODE: CULL

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

The Wayside Site is a key element in the interpretive and historic setting of Minute Man NHP. The cultural landscape for this site has had a preliminary study performed in 1970, but other than that, no attempt at further defining or restoring the landscape has been attempted. What exists now is a site with a formal border hedge in poor condition, miscellaneous bushes/shrubs and a terraced north side that has been neglected and is overgrown with weeds and exotic species. The landscape no longer parallels the historical integrity of the Wayside building and needs to be addressed to restore its historical significance.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

The park's GMP recommends implementation of the Historic Grounds Report (1970) for this site. Given the current condition of the landscape and the importance of this site within the historical and interpretive context of the park, the implementation of such a report is critical. Additional research to further define the report's recommendations may be necessary and should be included as part of this proposal to restore the cultural landscape. Currently the park is pursuing cultural landscape plans for the Battle Road and Buttrick's Gardens as outlined in the GMP. This action proposed for the Wayside is consistent with the current thrust of landscape restoration within the park.

## BUDGET AND FTEs:

|         | Source | Act Type | Budget (\$1000s) | FTEs |
|---------|--------|----------|------------------|------|
| Year 1: |        |          |                  |      |
| Year 2: |        |          |                  |      |
| Year 3: |        |          |                  |      |
| Year 4: |        |          |                  |      |

Proposal Date: 94

## PROJECT STATEMENT SHEET

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PS Page: 0047

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|        |      |     |
|--------|------|-----|
| Total: | 0.00 | 0.0 |
|--------|------|-----|

-----UNFUNDED-----

|         | Source    | Act Type  | Budget (\$1000s) | FTEs |
|---------|-----------|-----------|------------------|------|
| Year 1: | REG-OTHER | RES       | 10.00            | 0.0  |
|         | REG-OTHER | MIT       | 20.00            | 0.0  |
|         |           | Subtotal: | 30.00            | 0.0  |

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Year 2:

Year 3:

Year 4:

=====

|        |       |     |
|--------|-------|-----|
| Total: | 30.00 | 0.0 |
|--------|-------|-----|

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(s): 106

EXPLANATION:

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-C-025.000

PS Page: 0048

PROJECT NUMBER: MIMA-C-025.000

TITLE: DEVELOP/IMPLEMENT CULT.RES.PLAN-BUT.MANSION GARDENS

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 55.00

SERVICEWIDE ISSUES: C11 CULT LAND REPT

CULTURAL RESOURCE TYPE CODE: CULL

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

The cultural landscape that encompasses the North Bridge Visitor Center (Buttrick's Mansion) contains a vast number and variety of formal shrubs, bushes, tree and plants. There has been no comprehensive plan established for the care, maintenance, replacement and management of these grounds. As a result, many formal shrubs/bushes are overgrown, unhealthy and no longer fit within the original garden design. Furthermore, many of the formal shrubs/bushes will not survive the pruning necessary to bring them back to health and form. Many of the trees and plants face the same problem of neglect, and without a comprehensive plan to follow we will be at a disadvantage which could adversely impact the landscape. Our ability to maintain, replace or research plant/shrub/tree species is severely handicapped until the landscape priorities are defined in a Cultural Landscape Plan.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Research and produce a Cultural Landscape Plan that defines the period and form of the Buttrick landscape. This plan would identify and define the trees, shrubs, gardens and any structures as they relate to the landscape's time period. The plan would further define the maintenance and replacement of existing tree/shrub/plant species within the context of this plan. This plan would compliment the smaller scale perennial garden landscape plan currently being performed through a Radcliffe cooperative agreement. Portions of this plan will be implemented such as shrub, tree and plant replacement, walkway repair, etc.

## BUDGET AND FTES:

-----FUNDED-----

| Source | Act | Type | Budget (\$1000s) | FTES |
|--------|-----|------|------------------|------|
|--------|-----|------|------------------|------|

Year 1:

Year 2:

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-C-025.000

PS Page: 0049

Year 3:

Year 4:

|        |       |     |
|--------|-------|-----|
| Total: | ===== |     |
|        | 0.00  | 0.0 |

## -----UNFUNDED-----

|         | Source    | Act Type | Budget (\$1000s) | FTEs |
|---------|-----------|----------|------------------|------|
| Year 1: | REG-OTHER | RES      | 20.00            | 0.0  |
| Year 2: | PKBASE-CR | PRO      | 35.00            | 1.0  |

Year 3:

Year 4:

|        |       |     |
|--------|-------|-----|
| Total: | ===== |     |
|        | 55.00 | 1.0 |

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(s): 106

EXPLANATION:

Proposal Date: 92

## PROJECT STATEMENT SHEET

MIMA-C-026.000

PS Page: 0050

PROJECT NUMBER: MIMA-C-026.000

TITLE: DEVELOP CULTURL LANDSCAPE MANAGEMENT PLAN

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 0.00

SERVICEWIDE ISSUES: C11 CULT LAND REPT C13 REHAB/RESTORAT

CULTURAL RESOURCE TYPE CODE: CULL

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

A major component of the new GMP is to reestablish the 18th-century landscape as it existed in 1775. A major part of that is to reintroduce agricultural activity which the park plans to do by the issuing of historic leases. The park must come up with a plan which identifies land and its most effective agricultural use and also identifies sensitive ecological areas which will be excluded from agriculture.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

The park will work with the Regional Cultural Landscape Manager to identify the necessary components of a Cultural Landscape Management Plan. The next step will be to prepare a list of probable contractors and/or university programs that could assist in preparing the plan.

## BUDGET AND FTEs:

| -----FUNDED----- |          |                  |      |
|------------------|----------|------------------|------|
| Source           | Act Type | Budget (\$1000s) | FTEs |
| Year 1:          |          |                  |      |
| Year 2:          |          |                  |      |
| Year 3:          |          |                  |      |
| Year 4:          |          |                  |      |
| Total:           |          | 0.00             | 0.0  |

| -----UNFUNDED----- |          |                  |      |
|--------------------|----------|------------------|------|
| Source             | Act Type | Budget (\$1000s) | FTEs |
| Year 1:            |          |                  |      |
| Year 2:            |          |                  |      |

Proposal Date: 92



PROJECT STATEMENT SHEET

MIMA-C-026.000

PS Page: 0051

Year 3:

Year 4:

Total:

=====

0.00

0.0

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(s): EXCL

EXPLANATION: 516 DM6 App. 7.4 B

Proposal Date: 92

## PROJECT STATEMENT SHEET

MIMA-C-028.000  
PS Page: 0052

PROJECT NUMBER: MIMA-C-028.000

TITLE: UPGRADE ELECTRONIC SECURITY SYSTEM AT NBVC

FUNDING STATUS: FUNDED: 40.00 UNFUNDED: 0.00

SERVICEWIDE ISSUES: C20 INADEQ SECURIT

CULTURAL RESOURCE TYPE CODE: COMB

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

The intrusion alarm system in the North Bridge Visitor Center consistently malfunctions. The system, installed in 1974, is the oldest in the park. The alarm components are deteriorating rapidly due to age and extended use. It is difficult to locate replacement parts for the obsolete system. During the past two years, service technicians have repeatedly cautioned the system is on the verge of total failure. The North Bridge Visitor Center serves as the park's headquarters, as well as the main visitor contact station. Approximately \$75,000 of computer hard/software is housed in the North Bridge Visitor Center. This figure does not include the worth of the stored data or labor hours required to input the data. As a result of system failures, park headquarters is frequently vulnerable to intrusion and theft.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Conduct a survey of electronic security needs for the North Bridge Visitor center. Identify areas of special security needs, such as; displays of artifacts from the collection, musket displays, access to computer/office equipment. Design and install a system to ensure adequate and effective protection.

## BUDGET AND FTEs:

|         | Source    | Act Type | Budget (\$1000s) | FTEs |
|---------|-----------|----------|------------------|------|
| Year 1: | NON-NPS-O | PRO      | 40.00            | 0.0  |
| Year 2: |           |          |                  |      |
| Year 3: |           |          |                  |      |
| Year 4: |           |          |                  |      |
| Total:  |           |          | 40.00            | 0.0  |

Proposal Date: 92

## PROJECT STATEMENT SHEET

MIMA-C-028.000

PS Page: 0053

-----UNFUNDED-----  
Source      Act Type      Budget (\$1000s)      FTEs

Year 1:

Year 2:

Year 3:

Year 4:

Total:

=====

0.00

0.0

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(s): 106

EXPLANATION:

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-C-029.000  
PS Page: 0054

PROJECT NUMBER: MIMA-C-029.000

TITLE: UPGRADE FIRE PROTECTION SYSTEM IN THE WAYSIDE

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 10.00

SERVICEWIDE ISSUES: C20 INADEQ SECURIT

CULTURAL RESOURCE TYPE CODE: COMB

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

The fire alarm system at The Wayside is the oldest in the park having been installed in 1972. The current system is difficult to maintain, and has no extinguishing component. A survey of the structure should be conducted to determine fire protection needs. Viewed as a whole, The Wayside and it's furnishings, is the most valuable artifact in the park. Indeed in the event of a fire, it would be taken as a whole.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Conduct an inspection of the structure, by an alarm specialist with a background in preservation, to identify fire protection needs. The scope of the survey will include consideration of an extinguishing system, which is not a component of the current system. Design a new system to provide effective fire protection for the structure. This project will require multi-disciplinary collaboration of park and regional staff. Installation of the system will require section 106 compliance.

## BUDGET AND FTEs:

| -----FUNDED-----   |     |      |                  |      |
|--------------------|-----|------|------------------|------|
| Source             | Act | Type | Budget (\$1000s) | FTEs |
| Year 1:            |     |      |                  |      |
| Year 2:            |     |      |                  |      |
| Year 3:            |     |      |                  |      |
| Year 4:            |     |      |                  |      |
| Total:             |     |      | 0.00             | 0.0  |
| -----UNFUNDED----- |     |      |                  |      |
| Source             | Act | Type | Budget (\$1000s) | FTEs |

Proposal Date: 94

# PROJECT STATEMENT SHEET

MIMA-C-029.000  
PS Page: 0055

|         |               |       |     |
|---------|---------------|-------|-----|
| Year 1: | REP-REHAB PRO | 10.00 | 0.0 |
|---------|---------------|-------|-----|

Year 2:

Year 3:

Year 4:

|        |       |       |     |
|--------|-------|-------|-----|
| Total: | ===== | 10.00 | 0.0 |
|--------|-------|-------|-----|

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(s): 106

EXPLANATION:

Proposal Date: 92

## PROJECT STATEMENT SHEET

MIMA-C-030.000

PS Page: 0056

PROJECT NUMBER: MIMA-C-030.000

TITLE: REHABILITATION OF THE JOB BROOKS HOUSE

FUNDING STATUS: FUNDED: 300.00 UNFUNDED: 0.00

SERVICEWIDE ISSUES: C13 REHAB/RESTORAT

CULTURAL RESOURCE TYPE CODE: STRC

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

The parks GMP calls for the exterior restoration, and the interior rehabilitation of the Job Brooks House for the purpose of collections storage and museum work space. Presently this structure has been mothballed for 15 years and has recieved minimal maintenance. This historic structure is in urgent need of an HSR and replacement/repair of foundation and structural members. The restoration of this structure also serves the purpose of providing critical collection storage space to this parks curatorial collection. The present collection is spread throughout the park, in areas with little or no temperature and humidity control. Furthermore, there is no workspace for collection maintenance. The Job Brooks House is slated to serve as a much needed collection storage space and work area.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Development of a HSR to guide the exterior restoration of the Job Brooks House. Utilization of the CRC to carry out the exterior restoration work and portion of the interior rehabilitation. The development of an A&E report and implementation of this report by contract for the design and installation of an enviornmental control system and facilities needed for the collections storage area and work space. Development and implementation of a site landscape plan to address parking and appropriate ground cover and plant material.

## BUDGET AND FTEs:

|           |           | -----FUNDED----- |                  |      |
|-----------|-----------|------------------|------------------|------|
|           | Source    | Act Type         | Budget (\$1000s) | FTEs |
| Year 1:   | REP-REHAB | RES              | 20.00            | 0.0  |
|           | REP-REHAB | MIT              | 280.00           | 0.0  |
| Subtotal: |           |                  | 300.00           | 0.0  |

Year 2:

Proposal Date: 92

PROJECT STATEMENT SHEET

MIMA-C-030.000

PS Page: 0057

Year 3:

Year 4:

|        |        |     |
|--------|--------|-----|
| Total: | 300.00 | 0.0 |
|--------|--------|-----|

| -----UNFUNDED----- |          |                  |      |
|--------------------|----------|------------------|------|
| Source             | Act Type | Budget (\$1000s) | FTEs |

Year 1:

Year 2:

Year 3:

Year 4:

|        |      |     |
|--------|------|-----|
| Total: | 0.00 | 0.0 |
|--------|------|-----|

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(s): NHPA

EXPLANATION:

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-C-031.000

PS Page: 0058

PROJECT NUMBER: MIMA-C-031.000

TITLE: BASE PROGRAM, CULTURAL RESOURCE DOCUMENTATION

FUNDING STATUS: FUNDED: 116.80 UNFUNDED: 0.00

SERVICEWIDE ISSUES: C01 INADEQUATE DOC C02 INADEQUATE INV

CULTURAL RESOURCE TYPE CODE: COMB

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

Protection, preservation and management of park cultural resources values requires archeological, architectural and historical base data and information to be made available to park management, operations staff, and cooperating associations, and, through educational and interpretive materials, to the public.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Program costs are directly associated with the acquisition, synthesis and reporting of archeological, architectural and historical information base data necessary to: (1) locate, inventory, document, evaluate, determine significance and nominate qualified cultural resources to the National Register of Historic Places; (2) prepare the Cultural Sites Inventory, the List of Classified Structures, and National Catalog of Museum Objects; (3) prepare administrative histories; (5) complete regionwide and Servicewide topical themes associated with the history or prehistory of units within or qualified for inclusion with the National Park System; (6) edit, design and publish professional reports resulting from studies in the cultural resources disciplines; or (7) prepare new areas studies, and general management plans.

## BUDGET AND FTEs:

| -----FUNDED----- |           |          |                  |      |
|------------------|-----------|----------|------------------|------|
|                  | Source    | Act Type | Budget (\$1000s) | FTEs |
| Year 1:          | PKBASE-CR | RES      | 29.20            | 1.0  |
| Year 2:          | PKBASE-CR | RES      | 29.20            | 1.0  |
| Year 3:          | PKBASE-CR | RES      | 29.20            | 1.0  |
| Year 4:          | PKBASE-CR | RES      | 29.20            | 1.0  |
| Total:           |           |          | 116.80           | 4.0  |

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-C-031.000

PS Page: 0059

-----UNFUNDED-----  
Source      Act Type      Budget (\$1000s)      FTEs

Year 1:

Year 2:

Year 3:

Year 4:

Total:

0.00

0.0

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(s): NHPA

EXPLANATION:

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-C-032.000

PS Page: 0060

PROJECT NUMBER: MIMA-C-032.000

TITLE: BASE PROGRAM, CULTURAL RESOURCE ADMINISTRATION

FUNDING STATUS: FUNDED: 236.00 UNFUNDED: 0.00

SERVICEWIDE ISSUES: C12 PRESERVE MGMT C17 CTRL ENV IMPAC

CULTURAL RESOURCE TYPE CODE: COMB

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

Park cultural resources values are subject to degradation due to deterioration and erosion, human use impacts and threats from outside the park boundaries.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

The park is responsible for establishing and effectively administering a credible program of cultural resource management.

This project statement consists of the long-range planning, personnel management, position management, programming, budgeting, and overall supervisory activities for the major cultural resources management programs. Assigned park staff remain knowledgeable of all park resource issues and stay current through review of scientific literature and communication with peers. Resource issues are identified, management objectives are formulated and specific management prescriptions are developed to assure protection of resource values. Project costs are directly associated with operations, housekeeping and routine preservation maintenance performed more frequently than annually on cultural landscapes, archeological and historic sites, historic structures, and cultural collection materials. All housekeeping and routine preservation maintenance work shall be in accordance with an approved historic structure preservation guide, collection preservation guide, or cultural resources preservation guide, or under the direct supervision of appropriate cultural resources specialists in accordance with NPS policies, standards and guidelines. Resource Management Plans are prepared, project statements are developed and prioritized for funding and implementation. Park staff assigned with cultural resource management responsibilities work cooperatively with other divisions to ensure that cultural resource protection concerns are incorporated in park visitor use management activities.

## BUDGET AND FTEs:

-----FUNDED-----  
Source Act Type Budget (\$1000s) FTEs

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-C-032.000

PS Page: 0061

|         |               |        |     |
|---------|---------------|--------|-----|
| Year 1: | PKBASE-CR MON | 29.00  | 1.0 |
|         | PKBASE-CR MIT | 30.00  | 1.0 |
|         | Subtotal:     | 59.00  | 2.0 |
| Year 2: | PKBASE-CR MON | 29.00  | 1.0 |
|         | PKBASE-CR MIT | 30.00  | 1.0 |
|         | Subtotal:     | 59.00  | 2.0 |
| Year 3: | PKBASE-CR MON | 29.00  | 1.0 |
|         | PKBASE-CR MIT | 30.00  | 1.0 |
|         | Subtotal:     | 59.00  | 2.0 |
| Year 4: | PKBASE-CR MON | 29.00  | 1.0 |
|         | PKBASE-CR MIT | 30.00  | 1.0 |
|         | Subtotal:     | 59.00  | 2.0 |
|         | Total:        | 236.00 | 8.0 |

## -----UNFUNDED-----

| Source  | Act Type | Budget (\$1000s) | FTEs |
|---------|----------|------------------|------|
| Year 1: |          |                  |      |
| Year 2: |          |                  |      |
| Year 3: |          |                  |      |
| Year 4: |          |                  |      |
|         | Total:   | 0.00             | 0.0  |

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(s): NHPA

EXPLANATION:

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-C-033.000  
PS Page: 0062

PROJECT NUMBER: MIMA-C-033.000

TITLE: BASE PROGRAM, CULTURAL RESOURCE PROTECTION

FUNDING STATUS: FUNDED: 37.68 UNFUNDED: 0.00

SERVICEWIDE ISSUES: C12 PRESERVE MGMT C17 CTRL ENV IMPAC

CULTURAL RESOURCE TYPE CODE: COMB

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

Past human influences and environmental degradation have resulted in impacts to park cultural resource values. Ongoing park operations need to incorporate best management practices for avoidance, protection, preservation and management of cultural resource values. Quality control of park projects and activities needs to include project inspection by specialists with cultural resource management expertise.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

This project statement provides for planning and compliance functions pursuant to the National Historic Preservation Act and other federal and applicable state archeological, historical and environmental protection laws and regulations. Park staff assigned with cultural resource management responsibilities work cooperatively with other divisions to ensure that resource concerns are incorporated into park planning, compliance, development and other park project level activities. Quality assurance functions include the incorporation of best management practices for cultural resource protection, preservation, and management operations within the park. Quality control activities include on-site project inspections to assure compliance with cultural resource avoidance, protection, or mitigation commitments. Staff also responds to outside agency plans, identifies potential external threats, and provides environmental compliance reviews on proposals which may affect park resources. Regional solutions are sought cooperatively to address regional issues and needs.

## BUDGET AND FTEs:

|         | Source    | Act Type | Budget (\$1000s) | FTEs |
|---------|-----------|----------|------------------|------|
| Year 1: | PKBASE-CR | PRO      | 9.42             | 0.2  |
| Year 2: | PKBASE-CR | PRO      | 9.42             | 0.2  |

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-C-033.000

PS Page: 0063

|         |               |       |     |
|---------|---------------|-------|-----|
| Year 3: | PKBASE-CR PRO | 9.42  | 0.2 |
| Year 4: | PKBASE-CR PRO | 9.42  | 0.2 |
| Total:  |               | 37.68 | 0.8 |

-----UNFUNDED-----

| Source | Act Type | Budget (\$1000s) | FTEs |
|--------|----------|------------------|------|
|--------|----------|------------------|------|

Year 1:

Year 2:

Year 3:

Year 4:

|        |      |     |
|--------|------|-----|
| Total: | 0.00 | 0.0 |
|--------|------|-----|

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(s): NHPA

EXPLANATION:

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-C-034.000

PS Page: 0064

PROJECT NUMBER: MIMA-C-034.000

TITLE: UPGRADE/EXPAND INTRUSION ALARM SYSTEM BUTTRICK BARN

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 5.00

SERVICEWIDE ISSUES: C20 INADEQ SECURIT

CULTURAL RESOURCE TYPE CODE: OBJC

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

The major portion of the park's museum collection is stored in the Squash Court located in Buttrick Barn (maintenance barn). Presently there is an intrusion alarm system in the Squash Court but not the maintenance section. To further safeguard the museum collection against theft and arson an intrusion detection system needs to be added to the maintenance section of the barn.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Install a professionally designed intrusion detection system in the main part of the maintenance barn. Utilize the Squash Court detection system as a sub-zone to the main system.

## BUDGET AND FTEs:

-----FUNDED-----  
Source Act Type Budget (\$1000s) FTEs

Year 1:

Year 2:

Year 3:

Year 4:

=====  
Total: 0.00 0.0

-----UNFUNDED-----  
Source Act Type Budget (\$1000s) FTEs

Year 1: CRPP PRO 5.00 0.1

Year 2:

Year 3:

Proposal Date: 94

PROJECT STATEMENT SHEET

MIMA-C-034.000

PS Page: 0065

Year 4:

Total:

=====

5.00

0.1

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(s): EXCL

EXPLANATION: 516 DM6 APP. 7.4 E

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-C-035.000

PS Page: 0066

PROJECT NUMBER: MIMA-C-035.000

TITLE: DEVELOP DIASTER PLAN

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 10.00

SERVICEWIDE ISSUES: C26 OTHER

CULTURAL RESOURCE TYPE CODE: COMB

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

The park is in three towns and therefore must coordinate with three fire departments and police departments. Hurricanes and other extreme weather conditions have occurred in the area. The museum collection contains over 230,000 artifacts and there are 17 historic structures in the park, all wooden. Presently there is no comprehensive plan for responding to a disaster which could damage or cause destruction to the park's collections and historic structures. The collection is stored in two buildings and exhibited in one which is a historic structure. The Collection Management Plan, conducted in 1993, recommended that the park develop a Disaster Plan.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Develop a Disaster Plan which addresses all disaster possibilities, and, coordination with town emergency response agencies.

## BUDGET AND FTEs:

| -----FUNDED-----   |          |                  |       |     |
|--------------------|----------|------------------|-------|-----|
| Source             | Act Type | Budget (\$1000s) | FTEs  |     |
| Year 1:            |          |                  |       |     |
| Year 2:            |          |                  |       |     |
| Year 3:            |          |                  |       |     |
| Year 4:            |          |                  |       |     |
| Total:             |          | 0.00             | 0.0   |     |
| -----UNFUNDED----- |          |                  |       |     |
| Source             | Act Type | Budget (\$1000s) | FTEs  |     |
| Year 1:            | CRPP     | PRO              | 10.00 | 0.0 |

Proposal Date: 94

PROJECT STATEMENT SHEET

MIMA-C-035.000

PS Page: 0067

Year 2:

Year 3:

Year 4:

Total: 10.00 0.0

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(s): EXCL

EXPLANATION: 516 DM6 APP. 7.4 B

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-C-036.000

PS Page: 0068

PROJECT NUMBER: MIMA-C-036.000

TITLE: REPLACE HALON SUPPRESSION SYSTEM IN SQUASH COURT

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 20.00

SERVICEWIDE ISSUES: C20 INADEQ SECURIT

CULTURAL RESOURCE TYPE CODE: OBJC

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

The museum collection is stored in the south wing of the maintenance barn. The activities in the maintenance barn create a high fire threat. There are several physical changes which are needed to improve overall fire protection.

Presently the fire suppression system in the Squash Court consist of Halon 1301 extinguishing gas held in tanks, one on each level of the Squash Court. As required by NPS policy this must be replaced with a substance that is not harmful to the environment.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

The wall from the Squash Court hall to the maintenance area is solid masonry. A fire door on a self closing mechanism will greatly reduce the spread of a fire from the maintenance area to the collection storage area. The second floor landing area, which is presently covered in plywood, should be covered in sheetrock on both sides to provide a fire-retardant surface.

Replace the Halon system in the Squash Court with wet pipe sprinklers.

## BUDGET AND FTEs:

|         | Source | Act Type | FUNDED<br>Budget (\$1000s) | FTEs |
|---------|--------|----------|----------------------------|------|
| Year 1: |        |          |                            |      |
| Year 2: |        |          |                            |      |
| Year 3: |        |          |                            |      |
| Year 4: |        |          |                            |      |
| Total:  |        |          | 0.00                       | 0.0  |

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-C-036.000

PS Page: 0069

| -----UNFUNDED----- |        |          |                  |      |
|--------------------|--------|----------|------------------|------|
|                    | Source | Act Type | Budget (\$1000s) | FTEs |
| Year 1:            | CRPP   | PRO      | 20.00            | 0.0  |
| Year 2:            |        |          |                  |      |
| Year 3:            |        |          |                  |      |
| Year 4:            |        |          |                  |      |
| Total:             |        |          | 20.00            | 0.0  |

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(s): EXCL

EXPLANATION: 516 DM6 APP. 7.4 E

Proposal Date: 95

## PROJECT STATEMENT SHEET

MIMA-C-037.000

PS Page: 0070

PROJECT NUMBER: MIMA-C-037.000

TITLE: MAINTENANCE SUPPORT - HISTORIC STRUCTURES/LANDSCAPE

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 420.00

SERVICEWIDE ISSUES: C24 INSUFF STAFF

CULTURAL RESOURCE TYPE CODE: COMB

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

Of the 30 historic structures within the park 22 buildings are currently under the care and preservation of the parks maintenance staff. Currently, the park has two full time woodcrafters, one full time painter, one part time painter helper, one maintenance mechanic, one buildings and utilities foreman and one part time maintenance worker/custodian, for a total of 6.2 FTE devoted primarily to building and preservation maintenance. With only 6.2 FTE in buildings and utilities maintenance, plus limited base funding, a comprehensive preventive maintenance program cannot be maintained. It should be noted as the life estate and term reservations expire the park will acquire these seven historic structures in varying states of disrepair. Of these 29 structures, 30% are in good condition, 40% are in fair condition and 30% are in poor condition, with 57% of the structures experiencing low impacts, 27% experiencing moderate impacts and 16% experiencing severe impacts. Most of these impacts are due to deferred maintenance as a result of inadequate staffing and funding.

The cultural landscape comprises over 150 acres dispersed throughout many of the park's sites. These landscapes take the form of historic gardens, orchards and fields. The restoration and management of these cultural landscape components is an integral part of Minute Man's mission, and a focal point for thousands of visitors to the historical sites within the park. Currently the park has 1 full time foreman, maintenance worker and gardener, plus two STF laborers and 1 six month seasonal for a total of 5.2 FTE's. The maintenance of these 150 acres is by such a small crew has resulted in overgrown fields and loss of historic landscape plant materials and landscape integrity.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

An increase in positions for buildings and grounds maintenance is needed. The addition of 2 carpenter helpers (WG-4102-07), Painter (WG-4102-09), Maintenance Worker (WG-4749-05), and 2 Laborers (WG-3502-03), for a total increase of 6 FTE in Buildings is necessary. These positions will be utilized to provide the

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## PROJECT STATEMENT SHEET

MIMA-C-037.000  
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minimum and necessary preservation and cyclic work needed to maintain the parks historic structures without loss of historic fabric.

The addition of a Maintenance Worker Foreman (WS-4749-05), Mason (WG-3603-10), Tractor Operator (mowing) (WG-5706-08), Gardener (WG-5003-08), Gardener Worker (seasonal WG-5003-04), 2 MVO's (WG-5703-05) and 3 Laborers (seasonal - WG-3502-03), for a total increase of 8 FTE's is necessary. These positions will be utilized to maintain the historic fields, cultural landscapes associated with historic structures, reclaimed orchards, gardens and other cultural landscape components. Presently, only a portion of these landscape components are maintained with present staffing. This has resulted in loss of historic plant material (apple trees, formal shrubs) and overgrown historic fields that approach fiscal impossibility to reclaim.

## BUDGET AND FTEs:

| -----FUNDED----- |          |                  |      |
|------------------|----------|------------------|------|
| Source           | Act Type | Budget (\$1000s) | FTEs |
| Year 1:          |          |                  |      |
| Year 2:          |          |                  |      |
| Year 3:          |          |                  |      |
| Year 4:          |          |                  |      |
| Total:           |          | 0.00             | 0.0  |

| -----UNFUNDED----- |               |                  |      |
|--------------------|---------------|------------------|------|
| Source             | Act Type      | Budget (\$1000s) | FTEs |
| Year 1:            | PKBASE-CR MIT | 420.00           | 14.0 |
| Year 2:            |               |                  |      |
| Year 3:            |               |                  |      |
| Year 4:            |               |                  |      |
| Total:             |               | 420.00           | 14.0 |

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(s): EXCL

EXPLANATION: 516 DM6 APP. 7.4 (C4)

Proposal Date: 95

## PROJECT STATEMENT SHEET

PROJECT NUMBER: MIMA-C-038.000

TITLE: MAINTENANCE OF RESTORED BATTLE ROAD

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 10.00

SERVICEWIDE ISSUES: N08 CULT LANDSCAPE

CULTURAL RESOURCE TYPE CODE: CULL

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

The restored section of Battle Road, known as Nelson Road, is a 1000 foot section of the route taken by the British in 1775 on their way to and from Concord as they were pursued by Colonial militia. This road was restored in 1985 to its' 18th century road surface and appearance as outlined in the park's GMP. The current problem is the growth of invasive weeds and grasses onto the clay/sand road surface. This road is used on a daily basis by visitors and local residents and it's surface is therefore densely packed. The hard density of the surface is an expected and necessary attribute of this surface material as it replicates 18th century appearance. Present day traffic, however, is not as heavy or consistent as 18th century traffic patterns and as a result there is weed and grass growth on the road surface. This growth is not compatible with the restored appearance and road surface. Mechanical means need to be as least destructive as possible in breaking up, removing the weeds and restoring the road to an acceptable density that supports foot and bicycle traffic. Chemical eradication of these invasive species on a cyclic basis needs to be established that is both environmentally sound and within IPM guidelines.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Establish a management plan for the long term maintenance of the restored Battle Road (Nelson Road). This would include the removal of weeds and grass from the Battle Road through mechanical or chemical means; the establishment of guidelines to govern the removal process; and a maintenance calendar to track the work on a cyclic basis.

## BUDGET AND FTEs:

|        |          | FUNDING          |      |
|--------|----------|------------------|------|
| Source | Act Type | Budget (\$1000s) | FTEs |

Year 1:

Year 2:

Proposal Date: 95

## PROJECT STATEMENT SHEET

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Year 3:

Year 4:

Total:

0.00

0.0

-----UNFUNDED-----

|         | Source    | Act Type | Budget (\$1000s) | FTEs |
|---------|-----------|----------|------------------|------|
| Year 1: | RG-CR-MTN | RES      | 5.00             | 0.0  |
| Year 2: | PKBASE-CR | MIT      | 5.00             | 0.2  |
| Year 3: |           |          |                  |      |
| Year 4: |           |          |                  |      |

Total:

10.00

0.2

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(s): 106

EXPLANATION:

Proposal Date: 97

## PROJECT STATEMENT SHEET

MIMA-C-039.000

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PROJECT NUMBER: MIMA-C-039.000

TITLE: RESTORE BATTLE ROAD

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 5585.00

SERVICEWIDE ISSUES: C13 REHAB/RESTORAT

CULTURAL RESOURCE TYPE CODE: CULL

10-238 PACKAGE NUMBER: 158

## PROBLEM STATEMENT:

On September 21st, 1959, Public Law 86-321 established Minute Man National Historical Park "....to preserve for the benefit of the American people certain historic structures and properties of outstanding national significance associated with the opening of the War of the American Revolution ". Additional legislation enacted by Congress in October 1992 broadened the purpose of Minute Man National Historical park by amending the original enabling legislation as follows: The purpose of the park shall include the preservation and interpretation of (1) the historic landscape along the road between Lexington and Concord, (2) sites associated with the courses and consequences of the American Revolution .The park's new General Management Plan, approved July 1990, focuses on rehabilitating, interpreting, and maintaining the historic landscape of the Battle Road Unit, including restoration of approximately 2 miles of the original Battle Road.

Selected replication of the historic landscape is critical to visitor understanding of the scene of the battle as well as the nature of the 18th century New England rural economy and lifestyle. Portions of the Battle Road need to be restored to its 1775 appearance and limited to pedestrian use in order to convey an adequate understanding of the events of April 19, 1775 and the battle itself. Without restoration there will be minimal preservation of one of the park's principal resources and a much-diminished interpretive experience.

Restoration of the sections of the Battle Road, in conjunction with the development of continuous walking/biking trail, will allow greater accessibility to park resources, serving the local community, as well as the general visiting public.

2800 feet will be available for restoration by 1997 as use and occupancy permits expire along that section. The remaining sections of Battle Road will be available after the year 2000.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Approximately 2 miles of the historic Battle Road needs to be restored, requiring an archaeological survey to determine the appearance and location of the road, removal of existing roadway,

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## PROJECT STATEMENT SHEET

MIMA-C-039.000

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resurfacing of roadway to historic restoration specifications and the replacement of overhead utility lines underground. Additional research is needed to develop database with maps detailing historic vegetation patterns and species for reestablishment of the general historic landscape that encompassed this two mile section of Battle road as described in the GMP. The project will also include rebuilding of approximately 3 miles of stone walls bordering the Battle Road. Restoration work could begin in 1977 on 2800 feet of Battle Road as use and occupancy reservations expire. The remaining sections will be available after the year 2000.

The management of this cultural resource, once restored, is crucial to utilizing the accessibility it provides to visitors in search of interpretive opportunities. A management plan to establish guidelines for the care and maintenance of the dirt roadway and its adjoining landscape is essential, along with the machinery and FTE's to carry out the work on a cyclic basis.

## BUDGET AND FTEs:

| -----FUNDED-----   |           |          |                  |      |
|--------------------|-----------|----------|------------------|------|
|                    | Source    | Act Type | Budget (\$1000s) | FTEs |
| Year 1:            |           |          |                  |      |
| Year 2:            |           |          |                  |      |
| Year 3:            |           |          |                  |      |
| Year 4:            |           |          |                  |      |
|                    |           | Total:   | 0.00             | 0.0  |
| -----UNFUNDED----- |           |          |                  |      |
|                    | Source    | Act Type | Budget (\$1000s) | FTEs |
| Year 1:            | CONSTRUCT | RES      | 200.00           | 0.0  |
| Year 2:            | CONSTRUCT | MIT      | 5300.00          | 0.0  |
| Year 3:            | PKBASE-CR | PRO      | 85.00            | 3.0  |
| Year 4:            |           |          |                  |      |
|                    |           | Total:   | 5585.00          | 3.0  |

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(s): 106 ARPA

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EXPLANATION:

Proposal Date: 95

## PROJECT STATEMENT SHEET

MIMA-C-040.000

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PROJECT NUMBER: MIMA-C-040.000

TITLE: SIGNIFICANT PLANT MATERIAL PRESERVATION/REPLACEMENT

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 30.00

SERVICEWIDE ISSUES: C12 PRESERVE MGMT N08 CULT LANDSCAPE

CULTURAL RESOURCE TYPE CODE: COMB

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

This statement addresses a critical park need for preserving a wide diversity of native and introduced plants which are culturally and naturally significant. Many of these plants are rare, unique in variety and/or character, have direct association to important historic figures and events, and are critical character defining features within Minute Man's landscape. Extant vegetation is subject to the many problems and impacts associated with age, visitor overuse and changing environmental factors. As a result, many of these plants are beginning to decline and die.

It is becoming increasingly difficult to locate native and historical plant stock through nursery trade sources. In addition, as highly significant historic plants decline and die, genetically identical, cloned replacements must be planted. Without immediate action, these significant plants will be permanently lost.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

A plant material survey, that includes all types of plant material, needs to be conducted that identifies character defining vegetation which is culturally or naturally significant to the landscape. This survey would also provide plant identification, condition, original design intent, maintenance and IPM concerns and replacement species. Areas of particular concern are the formal and historic tree and shrubs around the North Bridge District, Elisha Jones House, The Wayside, Hartwell Tavern and areas of Virginia Road, Noah Brooks fields, Joshua Brooks, Nelson Road, Hargrove field, and Fiske Hill. With a survey in place, and a management plan developed from this information, a long range maintenance and replacement plan can be implemented that addresses the present and future concerns of these historically/naturally significant plants, shrubs and trees. As a part of this project, those plants in immediate or moderate decline would be propagated, cloned or replaced as dictated by this plan to insure preservation of the plant or it's successive generations.

Proposal Date: 95

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MIMA-C-040.000

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## BUDGET AND FTEs:

-----FUNDED-----  
Source Act Type Budget (\$1000s) FTEs

Year 1:

Year 2:

Year 3:

Year 4:

=====  
Total: 0.00 0.0

-----UNFUNDED-----  
Source Act Type Budget (\$1000s) FTEs

Year 1: CRPP RES 20.00 0.5

Year 2: PKBASE-CR MIT 10.00 0.5

Year 3:

Year 4:

=====  
Total: 30.00 1.0

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(s): 106

EXPLANATION:

Proposal Date: 94

PROJECT STATEMENT SHEET

MIMA-N-001.000

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PROJECT NUMBER: MIMA-N-001.000

TITLE: CONDUCT MANAGEMENT IGNITED RESEARCH BURNS

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 3.00

SERVICEWIDE ISSUES: N08 CULT LANDSCAPE N20 BASELINE DATA

CULTURAL RESOURCE TYPE CODE: CULL

10-238 PACKAGE NUMBER:

PROBLEM STATEMENT:

The newly amended park Fire Management Plan (FMP) proposes that a research program be conducted to assess the potential of prescribed fire as an effective alternative means for restoring and maintaining historic landscapes. This determination must be made before a formal program of prescription burning can be introduced. Prescribed fire may prove to be a more cost effective and efficient way of maintaining open fields than mowing. It may be possible to arrest natural succession at an early stage through the use of fire, thereby discouraging the occurrence of undesirable woody vegetation.

DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

1. Research Proposals: The FMP has identified two specific sites, or fire management units (FMU), on which to conduct research burns. Before the burns can be conducted certain documents must be prepared: (1) Research Proposals for each FMU (2) Prescribed Burn Plan for each FMU.

2. FMU Burn Plan: Once the requisite documents have been completed and approved the burns will be conducted according to the procedures as outlined in the NPS Fire Management Guideline (NPS 18). Burns will be conducted by a park fire crew under the supervision of an NPS Burn Boss.

3. Burns and Post Burn Analysis: A post-burn analysis, following the procedures outlined in the Research Proposals, will determine the desirability of pursuing a formal prescribed burn program.

Cost Estimate: \$ 3,000 for personnel costs. It will be necessary to employ personnel for other parks, including a Prescribed Burn Boss, and cover related travel costs. The park Fire Management Officer is presently developing the requisite documents necessary to conduct the burns. A target date for March and April, 1995 has been set for conducting the burns.

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-N-001.000

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## BUDGET AND FTEs:

-----FUNDED-----  
Source      Act Type      Budget (\$1000s)      FTEs

Year 1:

Year 2:

Year 3:

Year 4:

=====

|        |      |     |
|--------|------|-----|
| Total: | 0.00 | 0.0 |
|--------|------|-----|

-----UNFUNDED-----  
Source      Act Type      Budget (\$1000s)      FTEs

|         |               |      |     |
|---------|---------------|------|-----|
| Year 1: | REG-OTHER RES | 3.00 | 0.0 |
|---------|---------------|------|-----|

Year 2:

Year 3:

Year 4:

=====

|        |      |     |
|--------|------|-----|
| Total: | 3.00 | 0.0 |
|--------|------|-----|

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(s): EA

EXPLANATION:

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-N-002.000

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PROJECT NUMBER: MIMA-N-002.000

TITLE: BOUNDARY CENSUS TO DETERMINE RE-SURVEY NEEDS

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 5.00

SERVICEWIDE ISSUES: N20 BASELINE DATA N24 OTHER

CULTURAL RESOURCE TYPE CODE: COMB

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

Over the years vandalism to boundary monuments and unchecked vegetative growth have obscured certain segments of park boundary, making exact alignments uncertain. Further, in the course of re-establishing certain segments, park personnel have discovered alignment discrepancies between park tract maps and actual monument placement. An incomplete or inaccurate park boundary creates jurisdictional problems and makes encroachment determination difficult in many cases. This project has been worked on sporadically in the past, but because of frequent personnel changes, no standardized approach with meaningful continuity has been employed.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Review and summarize existing information concerning undisputed boundary segments. Develop a resource file by contacting local firms that have surveyed park property in the past and request copies of records/maps of same. Complete a field assessment of yet to be investigated segments. In the course of completing the field assessment, missing monuments will be replaced when boundary location is not in question. Boundary segments will be marked with NPS signs. Create a comprehensive status report, with maps/diagrams, detailing all confirmed and disputed boundary segments. Identify those segments which need to be re-surveyed.

## BUDGET AND FTEs:

-----FUND-----  
Source Act Type Budget (\$1000s) FTEs

Year 1:

Year 2:

Year 3:

Year 4:

Proposal Date: 94

## PROJECT STATEMENT SHEET

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=====

|        |      |     |
|--------|------|-----|
| Total: | 0.00 | 0.0 |
|--------|------|-----|

-----UNFUNDED-----

|         | Source    | Act Type | Budget (\$1000s) | FTEs |
|---------|-----------|----------|------------------|------|
| Year 1: | TEMP\$-NR | PRO      | 5.00             | 0.0  |
| Year 2: |           |          |                  |      |
| Year 3: |           |          |                  |      |
| Year 4: |           |          |                  |      |

=====

|        |      |     |
|--------|------|-----|
| Total: | 5.00 | 0.0 |
|--------|------|-----|

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(s): EXCL

EXPLANATION: No environmental impact

Proposal Date: 94

PROJECT STATEMENT SHEET

MIMA-N-003.000

PS Page: 0083

PROJECT NUMBER: MIMA-N-003.000

TITLE: PROGRAM MANAGEMENT AND ADMINISTRATION (NATURAL RES)

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 75.00

SERVICEWIDE ISSUES: N24 OTHER

CULTURAL RESOURCE TYPE CODE: N/A

10-238 PACKAGE NUMBER:

PROBLEM STATEMENT:

For the last 35 years Minute Man National Historical Park has acquired numerous natural resources including forest, wetlands, and fields containing a wide variety of wildlife habitats. Directly related to this is a major park program to re-establish agriculture and cultural landscapes in the park. The park will continue to expand in all of these areas in the coming years.

The day to day management of natural resources and related cultural resources requires full time support and coordination. Minute Man has no staff position dedicated to natural resource management and during the last few years the number of issues related to natural resource management has climbed continually. This has frequently resulted in natural resource management programs and issues being overlooked or only minimally considered during park operations. However, the park is now at a critical juncture because nearly all use and occupancy reservations in the park have expired and the park, as originally mandated by law, must now develop a visitor access corridor which will enable visitors to travel to all cultural and natural resources. In so doing, in its planning, the park will be continually addressing natural resource issues related to wetlands, critical habitats and interfacing development with agricultural activity. Experience has demonstrated that the planning process cannot progress unless these issues are addressed in a professional and timely manner as could be accomplished with a Natural Resource Management Specialist.

As Minute Man continues to expand and experience pressures from surrounding commercial development and carry out the myriad of components related to implementation of the Cultural Landscape Management Plan, the natural resources of the park will take on greater importance. Effective management of these resources requires a full time employee dedicated to this purpose.

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## PROJECT STATEMENT SHEET

MIMA-N-003.000

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## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

To carry out an effective natural resource management program the park will need a base increase of 45k and 1 FTE to support a full-time, GS-401-9, natural resource management position; and 30k and 1 FTE to support a Biological Technician.

A Natural Resource Management Specialist position is contained in the currently approved organizational chart. The major duties of this position will include the following; coordination/revision/implementation of the park's Natural Resource Management Plan, coordination of all monitoring related to natural resources and T&E species, coordinating I&M activities, researching and preparing Environmental Assessments, researching/writing Notices of Intents, accessing impact potential to wetlands because of proposed park development, liaison with neighboring conservation interest, technical support for the parks historic agricultural leasing program, and coordination of the parks GIS system.

## BUDGET AND FTEs:

-----FUND-----

| Source | Act Type | Budget (\$1000s) | FTEs |
|--------|----------|------------------|------|
|--------|----------|------------------|------|

Year 1:

Year 2:

Year 3:

Year 4:

=====  
Total: 0.00 0.0

-----UNFUNDED-----

| Source | Act Type | Budget (\$1000s) | FTEs |
|--------|----------|------------------|------|
|--------|----------|------------------|------|

|         |               |       |     |
|---------|---------------|-------|-----|
| Year 1: | PKBASE-NR ADM | 45.00 | 1.0 |
|         | PKBASE-NR MIT | 30.00 | 1.0 |
|         | Subtotal:     | 75.00 | 2.0 |

Year 2:

Year 3:

Year 4:

=====  
Total: 75.00 2.0

Proposal Date: 94

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(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(s): EXCL

EXPLANATION: 516 DM6 App. 7.4 E

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-N-004.000

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PROJECT NUMBER: MIMA-N-004.000

TITLE: DEVELOP PLAN TO CONTROL POISON IVY

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 2.00

SERVICEWIDE ISSUES: N24 OTHER

CULTURAL RESOURCE TYPE CODE: N/A

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

Excessive poison ivy (*Rhus toxicodendron*) occurrence is a pernicious natural resource management problem at MIMA. It rapidly invades disturbed sites, including newly constructed interpretive trails and fire breaks. Exposure to the plants can result in severe skin irritation, disrupting a visitor's vacation or causing an employee to miss work. Miles of historic stone walls are obscured from view by the aggressive growth of this plant. Also, the park will be re-introducing agricultural in many areas and will need to deal with long-term poison ivy growth in many of the areas to be converted.

In the past several years the park has used an approved, herbicidal agent (Roundup) to treat small problem areas, but a comprehensive, parkwide control plan is needed. The park needs additional funding to effectively manage this problem.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

A cooperative agreement with an agency, university or other extension service that could provide a field expert dedicated to developing, implementing and monitoring a comprehensive plan for the purpose of controlling poison ivy growth in the park.

Such a plan would include the following: survey the park and map the problem areas where visitors and employees most frequently come into contact with poison ivy and also where it would be a problem for agricultural activities. Solicit advice on most effective control measures from appropriate NPS experts, university or county extension services, and available reference materials. Develop a plan to control the plants in those pre-determined areas. The plan should include method of control (whether by herbicide or other means), regulatory approval process for control agent, schedule for frequency of control measure application, identification of involved park personnel, and list any training that is necessary to develop control measure expertise. The plan should also provide a mechanism for monitoring the effectiveness of the plan.

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## BUDGET AND FTEs:

| -----FUNDED----- |          |                  |      |
|------------------|----------|------------------|------|
| Source           | Act Type | Budget (\$1000s) | FTEs |
| Year 1:          |          |                  |      |
| Year 2:          |          |                  |      |
| Year 3:          |          |                  |      |
| Year 4:          |          |                  |      |
| Total:           |          | 0.00             | 0.0  |

| -----UNFUNDED----- |               |                  |      |
|--------------------|---------------|------------------|------|
| Source             | Act Type      | Budget (\$1000s) | FTEs |
| Year 1:            | RG-RM-NAT RES | 2.00             | 0.0  |
| Year 2:            |               |                  |      |
| Year 3:            |               |                  |      |
| Year 4:            |               |                  |      |
| Total:             |               | 2.00             | 0.0  |

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(s): EXCL

EXPLANATION: 516 DM6 App. 7.4 C(19)

Proposal Date: 93

## PROJECT STATEMENT SHEET

MIMA-N-005.000

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PROJECT NUMBER: MIMA-N-005.000

TITLE: DEVELOP A TRAIL CONCEPT PLAN

FUNDING STATUS: FUNDED: 300.00 UNFUNDED: 0.00

SERVICEWIDE ISSUES: N06 LAND USE PRAC N18 VIS USE-BCTRY

CULTURAL RESOURCE TYPE CODE: N/A

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

One park management goal, still in its infancy, is the development of a trail network. Such a trail system will eventually link the three units of the park and possibly articulate with existing trail systems on non-park land. This will offer visitors a further opportunity to get out of their cars and truly experience the park. The network may eventually include biking and foot trails. To date the only worked completed has been the construction of a .5 mile trail between two park historic sites in Lincoln. To proceed much further requires the development of a trail plan.

Such a plan will allow for phased construction of the trail system in an orderly manner and prevent costly deviations or errors. The park staff does not possess the technical expertise necessary to develop a comprehensive plan on its own and will need consultative assistance and additional funding to accomplish same.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Develop a trail concept plan. Park management will obtain technical assistance from organizations with proven trail planning and development experience, such as the Appalachian Mountain Club (AMC). The plan, whether written by park staff or the consultant, will contain detailed maps outlining trail routes, access points, and show relation to major park features. Prioritization of trail segment construction will be clearly delineated. The roles of the varied disciplines of interpretation, resource protection and maintenance, with respect to design, construction and trail maintenance, will be outlined. Sources of labor, beyond that which can be provided by park staff (such as the use of volunteers), should be addressed. Anticipated costs, including plan development, personnel, consultative services, and materials should be approximated. Trail specifications and construction materials should be listed. Lastly, instances of NEPA and/or NHPA compliance should be anticipated and the necessary procedures and instruments

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outlined.

Environmental Assessments and/or Environmental Impact Statements are anticipated needs for compliance purposes.

## BUDGET AND FTEs:

| -----FUNDED----- |               |          |                  |      |
|------------------|---------------|----------|------------------|------|
|                  | Source        | Act Type | Budget (\$1000s) | FTEs |
| Year 1:          | FED-OTHER RES |          | 300.00           | 0.0  |
| Year 2:          |               |          |                  |      |
| Year 3:          |               |          |                  |      |
| Year 4:          |               |          |                  |      |
| Total:           |               |          | 300.00           | 0.0  |

| -----UNFUNDED----- |        |          |                  |      |
|--------------------|--------|----------|------------------|------|
|                    | Source | Act Type | Budget (\$1000s) | FTEs |
| Year 1:            |        |          |                  |      |
| Year 2:            |        |          |                  |      |
| Year 3:            |        |          |                  |      |
| Year 4:            |        |          |                  |      |
| Total:             |        |          | 0.00             | 0.0  |

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(s): EXCL

EXPLANATION: 516 DM6 App. 7.4 B

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-N-006.000

PS Page: 0090

PROJECT NUMBER: MIMA-N-006.000

TITLE: UTILIZE GEOGRAPHIC INFORMATION SYSTEM

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 10.00

SERVICEWIDE ISSUES: N08 CULT LANDSCAPE N20 BASELINE DATA

CULTURAL RESOURCE TYPE CODE: CULL

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

Through cooperative agreements and in-house work by NPS staff a substantial number of GIS data layers have been developed for MIMA at Boston University, the University of Rhode Island and the University of Massachusetts. This data is presently being used in a specialized manner through a cooperative agreement with the University of Massachusetts in the development of a Cultural Landscape Management Plan. A question that remains after this project is finished is determining the appropriate size and nature of the in park investment in GIS capability and the manner in which these data can be easily utilized by the park in the future.

Geographic information system hardware is being established in the Regional Office and MIMA is one of the park's that will be serviced by it. The park GIS coordinator (Chief RM & VP) is a frequent and regular contact with the Regional GIS Coordinator and cooperators regarding GIS issues. In the future when the Regional system is up and running in order to maximize use of these data layers the park must develop a plan to interface with the Regional GIS system.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

The park proposes to establish a GIS system in-house which will provide access to all new and existing data. Most all baseline data has already been developed, so effort will be directed towards developing GIS components for current and future projects. The system will be an important tool for predicting changes in viewsheds as plans for alterations in land use or tree cover are developed as part of the Cultural Landscape Plan. Other anticipated applications include: developing options for a park trail system, mitigating impacts on sensitive flora and fauna, fire management activities, predicting changes in viewsheds, and scheduling maintenance activities.

The elements of in-house GIS development include identifying hardware and software options, additional baseline map

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## PROJECT STATEMENT SHEET

MIMA-N-006.000

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information needs, and level of operator training needed.

Until a final determination for the appropriate size and nature of in-park investment in GIS capability is made, the park will work closely with the Regional GIS Coordinator to establish a plan which enables MIMA to have ready access to its GIS data.

## BUDGET AND FTEs:

-----FUNDED-----

|  | Source | Act Type | Budget (\$1000s) | FTEs |
|--|--------|----------|------------------|------|
|--|--------|----------|------------------|------|

Year 1:

Year 2:

Year 3:

Year 4:

|        |  |  |      |     |
|--------|--|--|------|-----|
| Total: |  |  | 0.00 | 0.0 |
|--------|--|--|------|-----|

-----UNFUNDED-----

|  | Source | Act Type | Budget (\$1000s) | FTEs |
|--|--------|----------|------------------|------|
|--|--------|----------|------------------|------|

Year 1: GIS RES 5.00 0.0

Year 2: GIS RES 5.00 0.0

Year 3:

Year 4:

|        |  |  |       |     |
|--------|--|--|-------|-----|
| Total: |  |  | 10.00 | 0.0 |
|--------|--|--|-------|-----|

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(s): EXCL

EXPLANATION: 516 DM 6, App. 7.4.A.

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-N-007.000

PS Page: 0092

PROJECT NUMBER: MIMA-N-007.000

TITLE: DEVELOP COMPREHENSIVE INTEGRATED PEST MGMT PLAN

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 2.00

SERVICEWIDE ISSUES: N04 NON-NAT ANIMAL N05 NON-NAT PLANTS

CULTURAL RESOURCE TYPE CODE: COMB

10-238 PACKAGE NUMBER: 0

## PROBLEM STATEMENT:

Development of a comprehensive Integrated Pest Management (IPM) Plan for the park. The plan will be used to establish parameters, priorities, and guidelines for an effective IPM program at MIMA. Pest threatened resources at Minute Man include: 18 revolutionary-era buildings, a museum collection of approximately 216,000 artifacts, 6 acres of formal historic gardens, and 150 acres of agricultural land with an expected increase to 300 acres within ten years. This document needs to be created to lend direction and continuity to the program. The IPM plan will serve as a support document for the implementation of the GMP, cultural landscape and other resource management initiatives.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

The plan will address the four major areas of pest control at Minute Man:

- Structural pests, (historic structures)
- Museum pests, (collection storage, exhibits)
- Horticultural pests, (formal gardens/orchards)
- Agricultural pests, (cultural landscape/crop production)

The park IPM coordinator will have the principal responsibility for producing the plan, but will seek input/collaboration from all park division chiefs. The plan will be submitted to region for assistance, review and approval.

## BUDGET AND FTEs:

-----FUND-----

| Source | Act Type | Budget (\$1000s) | FTEs |
|--------|----------|------------------|------|
|--------|----------|------------------|------|

Year 1:

Year 2:

Year 3:

Proposal Date: 94

## PROJECT STATEMENT SHEET

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Year 4:

|        |      |     |
|--------|------|-----|
| Total: | 0.00 | 0.0 |
|--------|------|-----|

-----UNFUNDED-----

|         | Source    | Act Type | Budget (\$1000s) | FTEs |
|---------|-----------|----------|------------------|------|
| Year 1: | PKBASE-NR | MIT      | 2.00             | 0.1  |

Year 2:

Year 3:

Year 4:

|        |      |     |
|--------|------|-----|
| Total: | 2.00 | 0.1 |
|--------|------|-----|

## (OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS:

This is an essential planning and guiding document. Some resources have been significantly damaged due to pest infestations. The subsequent resource deterioration could progress beyond recovery.

COMPLIANCE CODE(s): EXCL

EXPLANATION: 516 DM6 App. 7.4 B - Plans/Studies

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-N-008.000

PS Page: 0094

PROJECT NUMBER: MIMA-N-008.000

TITLE: DEVELOP ACTION PLAN TO CONTROL PURPLE LOOSESTRIFE

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 2.00

SERVICEWIDE ISSUES: N05 NON-NAT PLANTS

CULTURAL RESOURCE TYPE CODE: N/A

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

Purple loosestrife (*Lythrum salicaria*), is an exotic perennial introduced from Europe. This highly invasive alien plant displaces indigenous wetland vegetation, including endangered species and food plants for wildlife. Populations have exploded in the Concord River flood plain at the North Bridge and in wetlands across from the Nowalk Farm. Proliferation of purple loosestrife may be a contributing factor in the reports of increased crop damage by crows and geese on agricultural crops.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Initially the management objective is to gather baseline data on the loosestrife population in the park. A survey will be conducted to inventory and map locations of purple loosestrife in the park. The inventory and monitoring method must contain a quantitative component so that in subsequent years population expansion can be measured. The methodology must remain consistent from year to year.

The survey was completed the summer of 1993 by a Student Conservation Association Employee. The data must now be used to determine what, if any, control strategies should be developed and implemented.

## BUDGET AND FTEs:

| -----FUNDED----- |                                |
|------------------|--------------------------------|
| Source           | Act Type Budget (\$1000s) FTEs |
| Year 1:          |                                |
| Year 2:          |                                |
| Year 3:          |                                |
| Year 4:          |                                |

=====

Proposal Date: 94

## PROJECT STATEMENT SHEET

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|        |      |     |
|--------|------|-----|
| Total: | 0.00 | 0.0 |
|--------|------|-----|

## -----UNFUNDED-----

|         | Source    | Act Type | Budget (\$1000s) | FTEs |
|---------|-----------|----------|------------------|------|
| Year 1: | PKBASE-NR | MIT      | 2.00             | 0.0  |

Year 2:

Year 3:

Year 4:

|        |      |     |
|--------|------|-----|
| Total: | 2.00 | 0.0 |
|--------|------|-----|

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(s): EXCL

EXPLANATION: 516 DM6 App. 7.4 E (6) - EXOTIC SP

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-N-009.000

PS Page: 0096

PROJECT NUMBER: MIMA-N-009.000

TITLE: UPDATE AERIAL PHOTOGRAPHS

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 1.00

SERVICEWIDE ISSUES: N20 BASELINE DATA N16 NEAR-PARK DEV

CULTURAL RESOURCE TYPE CODE: N/A

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

Park staff currently utilizes aerial photos from 1986. These photos have been rendered obsolete due to changes in land use, unregulated forest growth, and rapid development along park borders. New photos would serve as baseline data for numerous park initiatives; resource inventory and monitoring, IPM, development of a trail network, and the agricultural leasing program.

Also, new photos would enhance the park's GIS database. The digitized and corrected/justified data from new aerial photos could be used to produce overlays showing the conditions depicted by 1986 for comparison with the new 199? photos.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Obtain aerial photographs of the park, covering 850 acres within a six mile area.

## BUDGET AND FTEs:

| -----FUNDED-----   |           |          |                  |      |
|--------------------|-----------|----------|------------------|------|
|                    | Source    | Act Type | Budget (\$1000s) | FTEs |
| Year 1:            |           |          |                  |      |
| Year 2:            |           |          |                  |      |
| Year 3:            |           |          |                  |      |
| Year 4:            |           |          |                  |      |
|                    |           | Total:   | 0.00             | 0.0  |
| -----UNFUNDED----- |           |          |                  |      |
|                    | Source    | Act Type | Budget (\$1000s) | FTEs |
| Year 1:            | TEMP\$-NR | RES      | 1.00             | 0.0  |

Proposal Date: 94

PROJECT STATEMENT SHEET

MIMA-N-009.000

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Year 2:

Year 3:

Year 4:

Total:

=====

1.00

0.0

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(s): EXCL

EXPLANATION: 516 DM2 App. 2,1.6 - MONITORING

Proposal Date: 91

## PROJECT STATEMENT SHEET

MIMA-N-010.000

PS Page: 0098

PROJECT NUMBER: MIMA-N-010.000

TITLE: PARKWIDE BIOLOGICAL EVALUATION AND MAPPING

FUNDING STATUS: FUNDED: 30.00 UNFUNDED: 0.00

SERVICEWIDE ISSUES: C01 INADEQUATE DOC C02 INADEQUATE INV

CULTURAL RESOURCE TYPE CODE: N/A

10-238 PACKAGE NUMBER: 001

## PROBLEM STATEMENT:

Two major components of the new General Management Plan, approved July of 1991, are to develop better baseline data for Natural Resource Management purposes and to develop a parkwide landscape management plan. Before this can be adequately accomplished a survey of the biological diversity of the park must be done. This would involve vegetative mapping, wetland delineation, a rare and exotic species survey and a wildlife habitat assessment. The information gained will be used to evaluate the interrelationship between natural and cultural resources.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

In seeking to develop a landscape management plan, managers at Minute Man face several major issues involving wetlands, vegetation, wildlife habitat, open land and public health and safety. Presently there is no comprehensive database describing the park's biological diversity and wetlands. A current and comprehensive baseline database, beginning with accurate vegetative maps, is needed to facilitate professional level planning of the parks natural and cultural landscapes.

## BUDGET AND FTEs:

|         | Source    | Act Type | Budget (\$1000s) | FTEs |
|---------|-----------|----------|------------------|------|
| Year 1: | RG-NS-RES | RES      | 15.00            | 0.0  |
| Year 2: | RG-NS-RES | RES      | 15.00            | 0.0  |
| Year 3: |           |          |                  |      |
| Year 4: |           |          |                  |      |
|         | Total:    |          | 30.00            | 0.0  |

Proposal Date: 91

## PROJECT STATEMENT SHEET

MIMA-N-010.000

PS Page: 0099

-----UNFUNDED-----  
Source      Act Type      Budget (\$1000s)      FTEs

Year 1:

Year 2:

Year 3:

Year 4:

Total:

0.00

0.0

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(s): EXCL

EXPLANATION: 516 DM2 App. 2, 1.6 - RESEARCH

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-N-011.000

PS Page: 0100

PROJECT NUMBER: MIMA-N-011.000

TITLE: DEVELOP ORCHARD MANAGEMENT PLAN

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 3.00

SERVICEWIDE ISSUES: C01 INADEQUATE DOC N08 CULT LANDSCAPE

CULTURAL RESOURCE TYPE CODE: CULL

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

The development of a Orchard Management Plan would support the goals of the park's Cultural Landscape Management Plan which calls for the re-establishment of the 18-Century Landscape. The park has numerous old orchards but because of years of neglect they are rapidly deteriorating beyond the point of reclamation. The development of an Orchard Management Plan would support the goal of recreating historic use of the park's landscape. Saving existing apple trees could well save money and time by avoiding the need to plant new trees at some point in the future. Also, many of the fruit trees in the park have been looked at by university experts and are believed to be significant specimens in terms of age and species.

Additionally, the preservation of these trees will also save historic varieties of apple. These historic cultivars are an important component of the orchards as historic resources.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Consult with a Pomologist and Plant Pathologist to study certain existing apple trees on park land, from a horticultural and pathological viewpoint, for rehabilitative viability. The resulting baseline data and rehabilitation recommendations would form the basis for development of a Orchard Management Plan. The consultants will also provide park personnel with training in actual rehabilitative techniques such as pruning. The plan will provide technical guidance for future and continued orchard rehabilitation and management.

University experts in the New England area have been consulted about involvement in such a project and have expressed an interest in possible cooperative agreement arrangements.

## BUDGET AND FTES:

| -----FUNDING----- |          |                  |      |
|-------------------|----------|------------------|------|
| Source            | Act Type | Budget (\$1000s) | FTES |

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-N-011.000

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Year 1:

Year 2:

Year 3:

Year 4:

Total:

0.00

0.0

## -----UNFUNDED-----

Source

Act Type

Budget (\$1000s)

FTEs

Year 1:

Year 2: RG-NS-RES RES

3.00

0.0

Year 3:

Year 4:

Total:

3.00

0.0

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(s): EXCL

EXPLANATION: 516 DM2 App. 2, 1.6

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-N-012.000

PS Page: 0102

PROJECT NUMBER: MIMA-N-012.000

TITLE: ESTABLISH AQUATIC RESOURCE MONITORING PROGRAM

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 2.00

SERVICEWIDE ISSUES: N20 BASELINE DATA N11 WATER QUAL-EXT

CULTURAL RESOURCE TYPE CODE: N/A

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

Little data has been collected relative to water quality at Minute Man NHP. The park is ill-equipped to protect water resources within the park. Aquatic resources are threatened by industrial toxins, agricultural run-off, and rapid commercial development along park borders. Without baseline data it is impossible to determine or detect degradation in water quality. The consequence of deferral is to threaten the agricultural usage of the land as well as aquatic habitat.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Develop and implement a program to gather baseline data on water resource quality. The program will consist of two phases, inventory and monitoring. As the park has already completed locating, mapping and a biological survey of the resources, the scope of the inventory phase will include a chemical analysis of wetlands, ponds, rivers and creeks. Testing should include checking groundwater as well as surface water. The results will be compared to state and federal standards for water quality. The monitoring phase will consist of the identification of specific water quality parameters which can be measured on a regular basis by park staff. These parameters will be incorporated into a monitoring plan which will outline specific collection procedures, timetables, and standards adequate to protect park resources. For certain parameters that are difficult to measure with field instruments, the monitoring plan should outline acceptable sample collection procedures to facilitate contract laboratory analysis.

## BUDGET AND FTEs:

-----FUNDING-----  
Source Act Type Budget (\$1000s) FTEs

Year 1:

Year 2:

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-N-012.000

PS Page: 0103

Year 3:

Year 4:

|        |      |     |
|--------|------|-----|
| Total: | 0.00 | 0.0 |
|--------|------|-----|

## -----UNFUNDED-----

|         | Source    | Act Type | Budget (\$1000s) | FTEs |
|---------|-----------|----------|------------------|------|
| Year 1: | PKBASE-NR | MON      | 2.00             | 0.0  |

Year 2:

Year 3:

Year 4:

|        |      |     |
|--------|------|-----|
| Total: | 2.00 | 0.0 |
|--------|------|-----|

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(s): EXCL

EXPLANATION: 561 DM 6, 7.4 A - Research

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-N-013.000

PS Page: 0104

PROJECT NUMBER: MIMA-N-013.000

TITLE: WETLAND STUDY - ELM BROOK MARSH

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 5.00

SERVICEWIDE ISSUES: N11 WATER QUAL-EXT N12 WATER FLOW

CULTURAL RESOURCE TYPE CODE: COMB

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

Other than vehicle travel along the heavily used Route 2A there is no way to safely travel the length of the park to experience its natural and cultural resources. To compensate the park has been developing a trail to go from end to end. Approximately two miles of trail have been completed with four miles to go. Due to the location of Route 2A the next section of the trail must go over the Elm Brook Wetland via a boardwalk. An area of approximately 250 yards. Before the park can begin work it must receive permission from the Lincoln, MA conservation commission. Permission will only be granted after the following tasks are accomplished: a wetland survey and delineation, the filing of a "Notice of Intent" as mandated under the Massachusetts Wetland Protection Act, as well as Appendix A documenting certain rare "state-listed" animal and plant species.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

1. Phase I (completed): Work completed includes the identification of wetland areas and state listed rare vertebrate and invertebrate animal species through the analysis of plant materials, vernal pools and general physical attributes of surfaces associated with wetlands.

2. Phase II: Additional work yet to be done includes; further identification of wetland, bordering vegetated wetland and buffer zones through plant material identification and analysis of physical attributes of surfaces associated with wetlands. Surveying and flagging of the wetland area within the proposed trail. Preparation of a field map documenting the wetland, BVW and Buffer zone areas within the proposed trail. The area of this study is located in sections of land tracts 03-127 and 03-158, bounded by Rt. 2A to the south, upland to the west and east, and state property to the north. The preparation of a "Notice of Intent", with corresponding wetland maps and studies, will be prepared for submittal to the Lincoln/Concord Conservation Commissions for wetland compliance under the Massachusetts Wetland Protection Act.

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-N-013.000

PS Page: 0105

The Lincoln/ Concord Conservation Commissions were shown the site and briefed about the park's proposed plans for a visitor access cooridor. Phase II is a result of their request for further study of the ecology of the Elm Brook wetland.

## BUDGET AND FTEs:

| -----FUNDED----- |          |                  |      |
|------------------|----------|------------------|------|
| Source           | Act Type | Budget (\$1000s) | FTEs |
| Year 1:          |          |                  |      |
| Year 2:          |          |                  |      |
| Year 3:          |          |                  |      |
| Year 4:          |          |                  |      |
| Total:           |          | 0.00             | 0.0  |

| -----UNFUNDED----- |               |                  |      |
|--------------------|---------------|------------------|------|
| Source             | Act Type      | Budget (\$1000s) | FTEs |
| Year 1:            | REG-OTHER MIT | 5.00             | 0.0  |
| Year 2:            |               |                  |      |
| Year 3:            |               |                  |      |
| Year 4:            |               |                  |      |
| Total:             |               | 5.00             | 0.0  |

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(s): EXCL

EXPLANATION: 516 DM6 App. 7.4 G

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-N-014.000

PS Page: 0106

PROJECT NUMBER: MIMA-N-014.000

TITLE: DIGITIZE FUELS MODEL MAPS

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 2.00

SERVICEWIDE ISSUES: N07 NAT FIRE REGM

CULTURAL RESOURCE TYPE CODE: COMB

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

The park is in the process of implementing a fire management program. Towards that end the park has prepared and received approval for a fire management plan, established a fire weather station, acquired a fire truck and trained and equipped park staff to handle fire situations. The park is planning to conduct test controlled burns in the future. For the purposed of ducumentation and controlled burn planning it would be beneficial to have a GIS datalayer showing fuel types. Park staff has completed the field work and has color coded park tract maps showing the five fuel types and thier locations. The information must now be digitized.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Digitize maps showing location and types of fuels models for fire managment purposes. Through other projects the park has already completed a base map using ARC/INFO which will provide boundary and property lines for reference.

## BUDGET AND FTEs:

| -----FUNDED-----   |          |                  |      |
|--------------------|----------|------------------|------|
| Source             | Act Type | Budget (\$1000s) | FTEs |
| Year 1:            |          |                  |      |
| Year 2:            |          |                  |      |
| Year 3:            |          |                  |      |
| Year 4:            |          |                  |      |
| Total:             |          | 0.00             | 0.0  |
| -----UNFUNDED----- |          |                  |      |
| Source             | Act Type | Budget (\$1000s) | FTEs |

Proposal Date: 94

## PROJECT STATEMENT SHEET

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|         |         |     |      |     |
|---------|---------|-----|------|-----|
| Year 1: | FIRE-\$ | RES | 2.00 | 0.0 |
| Year 2: |         |     |      |     |
| Year 3: |         |     |      |     |
| Year 4: |         |     |      |     |

|        |       |      |     |
|--------|-------|------|-----|
| Total: | ===== | 2.00 | 0.0 |
|--------|-------|------|-----|

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(s): EXCL

EXPLANATION: No environmental impact

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-N-015.000

PS Page: 0108

PROJECT NUMBER: MIMA-N-015.000

TITLE: BASE PROGRAM, NATURAL RESOURCES PROTECTION

FUNDING STATUS: FUNDED: 24.00 UNFUNDED: 60.00

SERVICEWIDE ISSUES: N02 T&amp;E ANIMAL N06 LAND USE PRAC

CULTURAL RESOURCE TYPE CODE: N/A

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

Park resources values are subject to degradation due to human use impacts and threats from within and outside the park boundaries.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

The park is responsible for establishing and effectively administering a credible program of natural and cultural landscape resource management. This project statement consists of long-range planning, personnel management, position management, and programming and budgeting, and overall supervisory activities for the major natural and cultural landscape management programs.

Assigned park staff remain knowledgeable of all park resource issues and stay current through review of scientific literature and communication with peers. Resource issues are identified, management objectives are formulated and specific management prescriptions are developed to assure protection of resource values. Staff apply information gathered through scientific research to the solution of park issues. Threatened, endangered, and sensitive (TES) species are protected. Staff consults with Fish and Wildlife Service (FWS) and participates in TES recovery programs. Resource Management Plans (RMP's) are prepared, project statements are developed, and prioritized for funding and implementation. Park staff assigned with resource management responsibilities work cooperatively with other divisions to ensure that resource protection concerns are incorporated into field patrols and other park visitor used activities.

## BUDGET AND FTEs:

|         |           | -----FUNDED----- |                       |
|---------|-----------|------------------|-----------------------|
|         | Source    | Act Type         | Budget (\$1000s) FTEs |
| Year 1: | PKBASE-NR | RES              | 6.00 0.2              |
| Year 2: | PKBASE-NR | RES              | 6.00 0.2              |
| Year 3: | PKBASE-NR | RES              | 6.00 0.2              |

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## PROJECT STATEMENT SHEET

MIMA-N-015.000

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|         |               |      |     |
|---------|---------------|------|-----|
| Year 4: | PKBASE-NR RES | 6.00 | 0.2 |
|---------|---------------|------|-----|

|        |       |     |
|--------|-------|-----|
| Total: | 24.00 | 0.8 |
|--------|-------|-----|

| -----UNFUNDED----- |               |          |                  |      |
|--------------------|---------------|----------|------------------|------|
|                    | Source        | Act Type | Budget (\$1000s) | FTEs |
| Year 1:            | PKBASE-NR RES |          | 15.00            | 0.5  |
| Year 2:            | PKBASE-NR RES |          | 15.00            | 0.5  |
| Year 3:            | PKBASE-NR RES |          | 15.00            | 0.5  |
| Year 4:            | PKBASE-NR RES |          | 15.00            | 0.5  |
| Total:             |               |          | 60.00            | 2.0  |

## (OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS:

Continuation of the present program could result in loss or damage to the parks resources.

COMPLIANCE CODE(s): EXCL ESA

EXPLANATION: 561 DM 6, 7.4 A - RESEARCH

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-N-016.000

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PROJECT NUMBER: MIMA-N-016.000

TITLE: BASE PROGRAM, NATURAL RESOURCES EDUCATION

FUNDING STATUS: FUNDED: 8.00 UNFUNDED: 24.00

SERVICEWIDE ISSUES: N02 T&amp;E ANIMAL N22 VIS USE-DEV ZN

CULTURAL RESOURCE TYPE CODE: N/A

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

Impacts to park resources values, and threats to park resources from influences inside and outside park boundaries, often involve a lack of understanding of park values and systems, resource tolerances, and limits to change due to human influences. Integral with natural resource management for the park is the need for a fully developed program of public and park employee education.

Staff shortage does not allow for participation in the numerous public meeting related to land-use issues that could impact the park.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Park staff assigned with resource management responsibilities work cooperatively with other divisions to ensure that resource concerns are incorporated into employee orientation and training programs, and park interpretation programs and public education efforts. The objective of resource education efforts are to communicate NPS policies and resource management programs, to increase awareness of resource values and issues, and to engender an ethic of resource preservation and protection. Assigned staff serve as a direct liaison between management and the park, outside scientist to facilitate and provide logistical support for research identified through the Resource Management Plan. Staff must clearly communicate park management issues and needs for information to researchers.

Increased staff would allow participation in area public meetings related to land-use issues.

## BUDGET AND FTEs:

| -----FUNDED----- |               |                  |      |
|------------------|---------------|------------------|------|
| Source           | Act Type      | Budget (\$1000s) | FTEs |
| Year 1:          | PKBASE-NR PRO | 2.00             | 0.1  |

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-N-016.000

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|         |               |      |     |
|---------|---------------|------|-----|
| Year 2: | PKBASE-NR PRO | 2.00 | 0.1 |
| Year 3: | PKBASE-NR PRO | 2.00 | 0.1 |
| Year 4: | PKBASE-NR PRO | 2.00 | 0.1 |
| Total:  |               | 8.00 | 0.4 |

-----UNFUNDED-----

|         | Source        | Act Type | Budget (\$1000s) | FTEs |
|---------|---------------|----------|------------------|------|
| Year 1: | PKBASE-NR PRO |          | 6.00             | 0.3  |
| Year 2: | PKBASE-NR PRO |          | 6.00             | 0.3  |
| Year 3: | PKBASE-NR PRO |          | 6.00             | 0.3  |
| Year 4: | PKBASE-NR PRO |          | 6.00             | 0.3  |
| Total:  |               |          | 24.00            | 1.2  |

## (OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS:

Continuation of the present program could result in loss or damage to the park's resources.

COMPLIANCE CODE(s): EXCL ESA

EXPLANATION: NEPA, T/E

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-N-017.000

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PROJECT NUMBER: MIMA-N-017.000

TITLE: BASE PROGRAM, NATURAL RESOURCES MITIGATION

FUNDING STATUS: FUNDED: 8.00 UNFUNDED: 48.00

SERVICEWIDE ISSUES: N06 LAND USE PRAC N19 CONSUMPT USE

CULTURAL RESOURCE TYPE CODE: N/A

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

Past human influences have resulted in impacts to park resource value. Ongoing park operations and the reintroduction of agricultural needs to first pass through all applicable NEPA and state environmental compliance. Quality control of park projects, activities and agricultural leasing needs to include project inspection by specialist with resource management expertise.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

This project statement provides for planning and compliance functions pursuant to the National Environment Policy Act (NEPA) and other federal and applicable state environmental protection laws and regulations. Park staff assigned with natural resource management responsibilities work cooperatively with other divisions to ensure that resource concerns are incorporated into park planning, compliance, development and other park project level activities. Quality assurance functions include the incorporation of best management practices for natural resource protection, preservation, and management into NPS/MIMA agricultural reintroduction/leasing operations within the park. Quality control activities include on-site project inspections to assure compliance with natural resource avoidance, protection, or mitigation commitments. Staff also responds to outside agency plans, identifies potential external threats, and provides environmental compliance reviews on proposals which may affect park resources. Regional solutions are sought cooperatively to address regional issues and needs.

## BUDGET AND FTEs:

| -----FUNDED----- |           |          |                  |      |
|------------------|-----------|----------|------------------|------|
|                  | Source    | Act Type | Budget (\$1000s) | FTEs |
| Year 1:          | PKBASE-NR | MON      | 2.00             | 0.1  |
| Year 2:          | PKBASE-NR | MON      | 2.00             | 0.1  |

Proposal Date: 94

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|         |               |      |     |
|---------|---------------|------|-----|
| Year 3: | PKBASE-NR MON | 2.00 | 0.1 |
| Year 4: | PKBASE-NR MON | 2.00 | 0.1 |
| Total:  |               | 8.00 | 0.4 |

-----UNFUNDED-----

|         | Source    | Act Type | Budget (\$1000s) | FTEs |
|---------|-----------|----------|------------------|------|
| Year 1: | PKBASE-NR | MIT      | 12.00            | 0.4  |
| Year 2: | PKBASE-NR | MIT      | 12.00            | 0.4  |
| Year 3: | PKBASE-NR | MIT      | 12.00            | 0.4  |
| Year 4: | PKBASE-NR | MIT      | 12.00            | 0.4  |
| Total:  |           |          | 48.00            | 1.6  |

## (OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS:

Continuation of the present program could result in loss or damage to the park's resources.

COMPLIANCE CODE(s): EXCL EA

EXPLANATION: NEPA COMPLIANCE

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-N-018.000

PS Page: 0114

PROJECT NUMBER: MIMA-N-018.000

TITLE: BASE PROGRAM, NATURAL RESOURCE I &amp; M

FUNDING STATUS: FUNDED: 18.00 UNFUNDED: 24.00

SERVICEWIDE ISSUES: N08 CULT LANDSCAPE N17 BIODIVERSITY

CULTURAL RESOURCE TYPE CODE: N/A

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

Baseline inventory information is needed for all park natural resource values. Base maps need to delineate land ownership, and to incorporate geomorphology, soils, vegetation, and appropriate wildlife information, as well as park infrastructure in order to facilitate informed management decisions. The tracking of park activities, monitoring of resource effects, and the documentation of changes in resource values is a critically important feedback function to assure wise stewardship and sound decisionmaking, as well.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

This project provides for continued natural resource inventory and monitoring activities with the park. With training from scientific studies staff, and employing standard professional techniques and procedures, assigned park natural resources staff conduct resource inventories, compile data, and develop maps, reports and assessments. Staff conducts appropriate long-term monitoring programs of park resources that have been identified and developed in cooperation with professional scientific research staff. With the assistance of NPS research scientist, park staff provide periodic analyses and reports on monitoring data and resource trends that are of importance to park management. Assigned staff operate and maintain the park's resource data and Geographical Information System (GIS), and archive resource samples and specimens in accordance with established procedures. As assigned through park management, staff also assist in collection of data to support research projects.

## BUDGET AND FTEs:

|         | Source    | Act Type | FUNDED<br>Budget (\$1000s) | FTEs |
|---------|-----------|----------|----------------------------|------|
| Year 1: | PKBASE-NR | MON      | 4.50                       | 0.1  |
| Year 2: | PKBASE-NR | MON      | 4.50                       | 0.1  |

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|         |               |       |     |
|---------|---------------|-------|-----|
| Year 3: | PKBASE-NR MON | 4.50  | 0.1 |
| Year 4: | PKBASE-NR MON | 4.50  | 0.1 |
| Total:  |               | 18.00 | 0.4 |

-----UNFUNDED-----

|         | Source        | Act Type | Budget (\$1000s) | FTEs |
|---------|---------------|----------|------------------|------|
| Year 1: | PKBASE-NR MON |          | 6.00             | 0.2  |
| Year 2: | PKBASE-NR MON |          | 6.00             | 0.2  |
| Year 3: | PKBASE-NR MON |          | 6.00             | 0.2  |
| Year 4: | PKBASE-NR MON |          | 6.00             | 0.2  |
| Total:  |               |          | 24.00            | 0.8  |

## (OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS:

Continuation of the present program could result in loss or damage to the park's resources.

COMPLIANCE CODE(s): ESA NHPA

EXPLANATION: INVENTORY AND MONITORING

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PROJECT STATEMENT SHEET

MIMA-N-019.000

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PROJECT NUMBER: MIMA-N-019.000

TITLE: BASE PROGRAM, IPM PROGRAM FOR STRUCTURES/FARMING

FUNDING STATUS: FUNDED: 24.00 UNFUNDED: 60.00

SERVICEWIDE ISSUES: N01 NAT ANML OVPOP N04 NON-NAT ANIMAL

CULTURAL RESOURCE TYPE CODE: N/A

10-238 PACKAGE NUMBER:

PROBLEM STATEMENT:

Pest species both directly and indirectly threaten park agricultural resources. Plant-infesting pests, including insects and fungal organisms, seek crops and trees, resulting in substantial loss or damage. Additionally, pests such as rodents, insects, weeds and diseases attack the crops being grown on leased lands in the park. Pest are also implicated in the transmission of disease, such as lyme disease, typhus and encephalitis.

Wood-damaging insects are a significant problem to the 18 historic structures at MIMA because of the areas recurrent, wet climate, the predominance of wood used in construction materials and the poor structural condition of many of its buildings. Subterranean termites, carpenter ants, carpenter bees, and wood boring beetles are the most common pests that threaten the integrity of many of Minute Man's facilities, residences and historic structures and their furnishings. Without ongoing monitoring of active infestations, mitigation and repair of structural problems these structures would suffer substantial damage.

DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Integrated Pest Management, the method employed by the National Park Service, emphasizes prevention of pests, such as rodents, insects, weeds and diseases, and minimizes reliance on chemical controls. Control, the reduction of pest populations to levels below economic thresholds, includes monitoring the pest; manipulating the environment; removing alternate hosts; using natural predators and parasites; and utilizing the biology of the pest. Chemicals used for control include biological, biorational and low-toxicity products, such as soaps and oils.

Resolution of structural pest problems is accomplished using an Integrated Pest Management (IPM) approach. Specific management actions to resolve a pest problem are formulated on a case by case basis. However, MIMA's program includes all of the

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following activities: 1) Training: IPM and NPS pest management policies are discussed annually with all permanent and seasonal staff and park residents, and permittees. Also, the IPM Coordinator and the Safety Officer confer with the maintenance and museum staffs about monitoring techniques and proper use and handling of pesticides. 2) Monitoring: Pest populations are monitored to identify when they reach a level requiring treatment and to allow for an evaluation of any treatment. The park's goal is to implement an annual pest inspection for every structure. 3) Treatment: When necessary, appropriate chemical, biological or structural treatments are implemented to resolve a particular pest problem. This includes having the IPM Coordinator maintain a State Pesticide Applicators Certification, writing and monitoring of pesticide treatment contracts and coordinating with the Maintenance Division to mitigate conditions in wooden structures causing wet environments.

## BUDGET AND FTEs:

| -----FUNDED----- |           |           |                  |      |
|------------------|-----------|-----------|------------------|------|
|                  | Source    | Act Type  | Budget (\$1000s) | FTEs |
| Year 1:          | PKBASE-NR | MON       | 4.00             | 0.2  |
|                  | PKBASE-NR | MIT       | 2.00             | 0.1  |
|                  |           | Subtotal: | 6.00             | 0.3  |
| Year 2:          | PKBASE-NR | MON       | 4.00             | 0.2  |
|                  | PKBASE-NR | MIT       | 2.00             | 0.1  |
|                  |           | Subtotal: | 6.00             | 0.3  |
| Year 3:          | PKBASE-NR | MON       | 4.00             | 0.2  |
|                  | PKBASE-NR | MIT       | 2.00             | 0.1  |
|                  |           | Subtotal: | 6.00             | 0.3  |
| Year 4:          | PKBASE-NR | MON       | 4.00             | 0.2  |
|                  | PKBASE-NR | MIT       | 2.00             | 0.1  |
|                  |           | Subtotal: | 6.00             | 0.3  |
|                  |           | Total:    | 24.00            | 1.2  |

| -----UNFUNDED----- |           |           |                  |      |
|--------------------|-----------|-----------|------------------|------|
|                    | Source    | Act Type  | Budget (\$1000s) | FTEs |
| Year 1:            | PKBASE-NR | MON       | 9.00             | 0.3  |
|                    | PKBASE-NR | MIT       | 6.00             | 0.2  |
|                    |           | Subtotal: | 15.00            | 0.5  |

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MIMA-N-019.000

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|         |               |       |       |
|---------|---------------|-------|-------|
| Year 2: | PKBASE-NR MON | 9.00  | 0.3   |
|         | PKBASE-NR MIT | 6.00  | 0.2   |
|         |               | ----- | ----- |
|         | Subtotal:     | 15.00 | 0.5   |
| Year 3: | PKBASE-NR MON | 9.00  | 0.3   |
|         | PKBASE-NR MIT | 6.00  | 0.2   |
|         |               | ----- | ----- |
|         | Subtotal:     | 15.00 | 0.5   |
| Year 4: | PKBASE-NR MON | 9.00  | 0.3   |
|         | PKBASE-NR MIT | 6.00  | 0.2   |
|         |               | ----- | ----- |
|         | Subtotal:     | 15.00 | 0.5   |
|         |               | ===== | ===== |
|         | Total:        | 60.00 | 2.0   |

## (OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS:

Continuation of the present program could result in loss or damage to the park's resource.

COMPLIANCE CODE(s): DOC

EXPLANATION: 10-21A

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-N-020.000

PS Page: 0119

PROJECT NUMBER: MIMA-N-020.000

TITLE: BASE PROGRAM, DETER ILLEGAL HAZ WATE DUMPING

FUNDING STATUS: FUNDED: 8.00 UNFUNDED: 32.00

SERVICEWIDE ISSUES: N24 OTHER

CULTURAL RESOURCE TYPE CODE: COMB

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

Illegal dumping is a serious health and safety management problem for parks located within the North Atlantic Region. As local landfills become more stringent in the waste that they will accept from the public, and businesses are required to comply with tougher, more costly hazardous waste management regulations, disposal of hazardous waste in our parks becomes more prevalent. As the amount of waste improperly disposed of in parks grows, health risks to the environment, employees, and the visiting public also increase.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Patrol efforts are directed at detecting and deterring illegal dumping; investigating illegally dumping acts; educating park neighbors and visitors about reporting illegal dumping to park officials. Staff works with Regional Hazardous Materials Management & Waste Enforcement Unit (HMMWE) to develop a "hazardous waste awareness" program for park visitors.

## BUDGET AND FTEs:

| -----FUNDED-----   |           |          |                  |      |
|--------------------|-----------|----------|------------------|------|
|                    | Source    | Act Type | Budget (\$1000s) | FTEs |
| Year 1:            | PKBASE-NR | PRO      | 2.00             | 0.1  |
| Year 2:            | PKBASE-NR | PRO      | 2.00             | 0.1  |
| Year 3:            | PKBASE-NR | PRO      | 2.00             | 0.1  |
| Year 4:            | PKBASE-NR | PRO      | 2.00             | 0.1  |
| Total:             |           |          | 8.00             | 0.4  |
| -----UNFUNDED----- |           |          |                  |      |
|                    | Source    | Act Type | Budget (\$1000s) | FTEs |

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-N-020.000

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|         |               |       |     |
|---------|---------------|-------|-----|
| Year 1: | PKBASE-NR PRO | 8.00  | 0.3 |
| Year 2: | PKBASE-NR PRO | 8.00  | 0.3 |
| Year 3: | PKBASE-NR PRO | 8.00  | 0.3 |
| Year 4: | PKBASE-NR PRO | 8.00  | 0.3 |
| Total:  |               | 32.00 | 1.2 |

## (OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS:

No action will result in increasing damage to park resources, and possible health threats to employees and visitors.

COMPLIANCE CODE(s): EXCL

EXPLANATION: 516 DM2 APP. 2, 1.4

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-N-021.000  
PS Page: 0121

PROJECT NUMBER: MIMA-N-021.000

TITLE: PARK HAZ WASTE MINIMIZATION PROGRAM

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 20.00

SERVICEWIDE ISSUES: N24 OTHER

CULTURAL RESOURCE TYPE CODE: COMB

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

Park maintenance facilities produce a variety of hazardous wastes ranging from used motor oil to spent solvents and cleaning fluids. If not properly disposed of, these substances may pose serious risks to park resources, employees and the visiting public.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

By developing a joint hazardous waste minimization program between the park and the Region's Hazardous Materials Management and Waste Enforcement Unit (HMMWE), the amount of waste generated by park facilities would be greatly reduced. Moreover, this program would translate into increased worker and public safety; decreased liability under federal hazardous waste regulations; and improved environmental management. The program would consist of implementing the U.S. Environmental Protection Agency's Strategic Waste Minimization Initiative (SWAMI) in parks and regional support units throughout the North Atlantic Region. An initial survey to determine methods of waste minimization would be conducted by the Region's HMMWE Program Coordinator, followed by specialized training and subsequent follow-up visits and technical assistance.

## BUDGET AND FTES:

|         | Source | Act Type | Budget (\$1000s) | FTES |
|---------|--------|----------|------------------|------|
| Year 1: |        |          |                  |      |
| Year 2: |        |          |                  |      |
| Year 3: |        |          |                  |      |
| Year 4: |        |          |                  |      |
| Total:  |        |          | 0.00             | 0.0  |

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| -----UNFUNDED----- |           |          |                  |      |
|--------------------|-----------|----------|------------------|------|
|                    | Source    | Act Type | Budget (\$1000s) | FTEs |
| Year 1:            | FED-OTHER | PRO      | 5.00             | 0.1  |
| Year 2:            | FED-OTHER | PRO      | 5.00             | 0.1  |
| Year 3:            | FED-OTHER | PRO      | 5.00             | 0.1  |
| Year 4:            | FED-OTHER | PRO      | 5.00             | 0.1  |
| Total:             |           |          | 20.00            | 0.4  |

## (OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS:

If no action is taken the Region will continue to increase waste output, thus causing greated liability under federal hazardous waste laws (i.e. RCRA, CERCLA, SARA Title III, and FFCA). Additionally, environmental protection and worker safety will be constant challenges to park managers, as will the increasing costs of waste disposal.

COMPLIANCE CODE(s): EXCL

EXPLANATION: 516 DM6 APP. 7.4 E

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PROJECT STATEMENT SHEET

MIMA-N-022.000

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PROJECT NUMBER: MIMA-N-022.000

TITLE: 401 ASSISTANT FOR MAJOR PARK DEVELOPMENT PROJECT

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 20.00

SERVICEWIDE ISSUES: N20 BASELINE DATA C11 CULT LAND REPT

CULTURAL RESOURCE TYPE CODE: COMB

10-238 PACKAGE NUMBER: MIMA-1

PROBLEM STATEMENT:

Minute Man NHP was established in 1958 to preserve and interpret certain historic structures and landscapes that were part of the opening of the American Revolution. For the past 30 years the park arduously acquired properties and agricultural land along a five-mile stretch of the Battle Road. However, numerous term reservations issued to original home owners have made public access to the park's resources almost non-existent. Now nearly all reservations have expired. Another major factor limiting visitor access to park resources is Route 2A, traveled by 20,000 plus commuters each day.

In 1993 the park began the process of determining the most suitable means of access for visitors to the park's cultural and natural features. The park proposes to establish a visitor access corridor that will travel 5.7 miles from Fiske Hill in Lexington to Meriam's Corner in Concord. Based upon the topography and configuration of the park, and numerous site visits, it has been realized that any access system will need to pass through, near or next to numerous sensitive ecological areas.

The planning process will not be able to advance until the park secures the assistance of a part-time Resource Management Specialist in order to address NEPA compliance issues and to address the technical concerns, related to biological impacts, expressed by three local Conservation Commissions. In order to adequately plan for a trail system the park will need a part-time Resource Management Specialist, 401 series.

DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Park staff has learned from maps and numerous field visits that a trail system will have to pass through or near numerous sensitive ecological areas. A part-time Natural Resource Management Specialist, 401 series, is needed for biological monitoring during the planning process. The primary kind of work that must be accomplished in order for the planning process to advance

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## PROJECT STATEMENT SHEET

MIMA-N-022.000

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includes: the writing of Environmental Assessments, NEPA compliance, preparing the necessary field research and documentation in order to fulfill the 404 requirements of the Army Corp of engineers and addressing the technical questions raised by local Conservation Commissions. Related detailed work includes: plant identification, wetland delineation, wildlife corridor identification and monitoring, assessing wildlife habitat impacts, incorporating GIS data, and documenting findings.

The park does not have the staff to accomplish the above described work. However, a part-time Natural Resource Management Specialist would be able to accomplish such work and hence help the planning process for a visitor access system to advance. The park is aware of individuals with 401 education and training who would be interested in such a part-time position.

## BUDGET AND FTEs:

| -----FUNDED----- |          |                  |      |
|------------------|----------|------------------|------|
| Source           | Act Type | Budget (\$1000s) | FTEs |
| Year 1:          |          |                  |      |
| Year 2:          |          |                  |      |
| Year 3:          |          |                  |      |
| Year 4:          |          |                  |      |
| Total:           |          | 0.00             | 0.0  |

| -----UNFUNDED----- |               |                  |      |
|--------------------|---------------|------------------|------|
| Source             | Act Type      | Budget (\$1000s) | FTEs |
| Year 1:            | REG-OTHER RES | 20.00            | 0.5  |
| Year 2:            |               |                  |      |
| Year 3:            |               |                  |      |
| Year 4:            |               |                  |      |
| Total:             |               | 20.00            | 0.5  |

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(s): EXCL EA

EXPLANATION: 516 DM2 APP. 2, 1.6

Proposal Date: 94

PROJECT STATEMENT SHEET

MIMA-N-023.000  
PS Page: 0125

PROJECT NUMBER: MIMA-N-023.000

TITLE: MONITOR AGRICULTURAL PRACTICES OF LEASED FIELDS

FUNDING STATUS: FUNDED: 6.00 UNFUNDED: 100.00

SERVICEWIDE ISSUES: N08 CULT LANDSCAPE C01 INADEQUATE DOC

CULTURAL RESOURCE TYPE CODE: SITE

10-238 PACKAGE NUMBER:

PROBLEM STATEMENT:

Presently the park leases approximately 120 acres of land for agricultural purposes and plans to expand this by approximately 200 to 300 acres in the coming years. The present monitoring of land use and agricultural practices of leased fields is inadequate due to the absence of an effective monitoring system and insufficient staff time. The intense vegetable farming and pesticide use (15 pesticide use proposals are approved each year), and the near location of numerous natural land and aquatic resources, illustrate the need for a thorough and consistent monitoring program.

Another reason why a monitoring program is needed is because the park is surrounded by land in agricultural use which does not have the same restrictions relating to pesticide use as NPS land and the park shares water ways with these areas.

DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Establish a comprehensive program for the monitoring of land use and agricultural practices. The program would include working closely with farmers/permittees. The activities will include maintaining yearly pesticide use logs, establishing crop rotation schedules, tracking yearly crop yields, conducting water runoff analysis and soil testing for organic, inert or chemical properties. Examples of specific monitoring activities are: farmer interviews, pheromone traps for monitoring, visual monitoring i.e. earworm activity/infestation, periodic soil testing.

The objectives of the monitoring program are: A. Protection of the natural resources and animal habitats from excessive chemical pesticide use. B. Achieving Sustainable Agriculture in a manner which both maintains soil integrity and provides a reasonable crop yield for the farmer. A component of the program will be to facilitate a Farmers Association for the exchange of information.

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## PROJECT STATEMENT SHEET

MIMA-N-023.000

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## BUDGET AND FTEs:

| -----FUNDED----- |            |          |                  |      |
|------------------|------------|----------|------------------|------|
|                  | Source     | Act Type | Budget (\$1000s) | FTEs |
| Year 1:          | SPECIAL-\$ | MON      | 1.50             | 0.1  |
| Year 2:          | SPECIAL-\$ | MON      | 1.50             | 0.1  |
| Year 3:          | PKBASE-NR  | MON      | 1.50             | 0.1  |
| Year 4:          | PKBASE-NR  | MON      | 1.50             | 0.1  |
| Total:           |            |          | 6.00             | 0.4  |

| -----UNFUNDED----- |           |          |                  |      |
|--------------------|-----------|----------|------------------|------|
|                    | Source    | Act Type | Budget (\$1000s) | FTEs |
| Year 1:            | PKBASE-NR | MON      | 15.00            | 0.5  |
|                    | PKBASE-NR | ADM      | 10.00            | 0.2  |
| Subtotal:          |           |          | 25.00            | 0.7  |
| Year 2:            | PKBASE-NR | MON      | 15.00            | 0.5  |
|                    | PKBASE-NR | ADM      | 10.00            | 0.2  |
| Subtotal:          |           |          | 25.00            | 0.7  |
| Year 3:            | PKBASE-NR | MON      | 15.00            | 0.5  |
|                    | PKBASE-NR | ADM      | 10.00            | 0.2  |
| Subtotal:          |           |          | 25.00            | 0.7  |
| Year 4:            | PKBASE-NR | MON      | 15.00            | 0.5  |
|                    | PKBASE-NR | ADM      | 10.00            | 0.2  |
| Subtotal:          |           |          | 25.00            | 0.7  |
| Total:             |           |          | 100.00           | 2.8  |

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(s): EXCL EA

EXPLANATION: 516 DM2 APP. 2, 1.6

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-N-024.000

PS Page: 0127

PROJECT NUMBER: MIMA-N-024.000

TITLE: DEVELOP VISTA MANAGEMENT PLAN

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 15.00

SERVICEWIDE ISSUES: N08 CULT LANDSCAPE

CULTURAL RESOURCE TYPE CODE: SITE

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

Graphic and written documentation demonstrates that at least 85% of the land comprising Minute Man was open at the time of the Revolutionary war in 1775. When Minute Man NHP was established in 1958, the land was generally open as it was in 1775. The open agricultural land provided many views, vistas and overlooks. For 30 years the NPS purchased and removed hundreds of modern buildings and structures. In many cases the original owners retained use and occupancy reservations allowing them to live in their homes for life or 15 or 25 year terms. During this time agricultural activity decrease and successional forest growth ensued. Many of the historic structures which have been retained in the park are at locations that once contained expansive and splendid views. However, many of the views once afforded by the open agriculture land have become blocked by tall and dense vegetation. Additionally, most visitor contact areas do not have the best view sheds possible due to excessive vegetative screening. Efforts to maintain specific views from visitor centers, certain historic structures and some trails have been accomplished by crews removing trees and shrubs, however, efforts were initiated by decisions on the moment, in lieu of a long-term management plan. Without development of a plan that outlines specific guidelines for vista maintenance and vista enhancement, efforts to maintain aesthetic views will be irregular and possibly misguided.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

1. Study the vegetative cover as documented in the 1938 aerial photographs, the Joyce Malcomb Report and the Cultural Landscape Report (1993). When MIMA was established in 1958, most land was still open. The result of continuing agricultural activity. However, due to numerous reasons the growth of vegetation during the last 35 years has obstructed many views.
2. An inventory of current and historic vistas is contained in the newly developed GIS Database. These will be studied so as to aid with future vista decisions.

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## PROJECT STATEMENT SHEET

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3. Develop methods and frequency for vista maintenance. The plan will specify preservation of specific views that existed during the Revolutionary War period, suggest a mechanism for choosing additional views and prescribe methods for, and frequency of, routine vista maintenance.

The proposed research and monitoring projects are categorically excluded from NEPA compliance. Implementation of any large scale vegetation clearing will require NEPA review.

## BUDGET AND FTEs:

| -----FUNDED----- |          |                  |      |
|------------------|----------|------------------|------|
| Source           | Act Type | Budget (\$1000s) | FTEs |
| Year 1:          |          |                  |      |
| Year 2:          |          |                  |      |
| Year 3:          |          |                  |      |
| Year 4:          |          |                  |      |
| Total:           |          | 0.00             | 0.0  |

| -----UNFUNDED----- |               |                  |      |
|--------------------|---------------|------------------|------|
| Source             | Act Type      | Budget (\$1000s) | FTEs |
| Year 1:            | REG-OTHER RES | 15.00            | 0.0  |
| Year 2:            |               |                  |      |
| Year 3:            |               |                  |      |
| Year 4:            |               |                  |      |
| Total:             |               | 15.00            | 0.0  |

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(s): EA 106

EXPLANATION: 516 DM6 APP. 7.4 C(19)

Proposal Date: 94

## PROJECT STATEMENT SHEET

PROJECT NUMBER: MIMA-N-025.000

TITLE: MANAGE RARE INVERTEBRATES/VERTEBRATES

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 7.00

SERVICEWIDE ISSUES: N02 T&amp;E ANIMAL

CULTURAL RESOURCE TYPE CODE: CULL

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

Two state-listed invertebrate species, Mystic Valley Amphipod and Elderberry Borer Beetle are known to occur in Minute Man NHP. Additionally, two "Watch-List" vertebrate species, the spotted salamander and the common shiner, also occur in the Park.

Without a focused monitoring effort to evaluate continuously the status of these organisms, large scale impacts to their populations are likely to go unchecked. Because of the variable nature of invertebrate populations, other rare species may be present that have not been located in previous studies.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

1. Develop a monitoring plan for rare invertebrates and vertebrates. The plan will outline future monitoring needs that may be accomplished in the absence of long-term funding support.

COSTS: CY: -  
OY1: \$ 1,000  
OY2: -  
OY3: \$ 1,000

2. Evaluate Elderberry Borer Beetle and Mystic Valley Amphipod habitats. Designate these areas of no significant disturbance of existing soils and vegetation with the exception of enhancement, and management. Currently, populations of EBB species occur only in one area. Seek out new populations, particularly along farm ditches on lands north of Lexington Rd, Concord. If, after further research, the status of the Elderberry Borer Beetle proves grave, work with biologist familiar with the species to designate priority areas to plant elderberries in wet soils along the edges of as many open fields as possible. Determine whether the MVA occur in other streams including Mill Brook and the stream near the Battle Road Visitor Center. Management techniques will have to be developed specific to MIMA, in the absence of previous reintroduction attempts for this species.

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-N-025.000

PS Page: 0130

COST: CY: -  
OY1: \$1,000  
OY2: -  
OY3: -

## BUDGET AND FTEs:

| -----FUNDED----- |          |                  |      |
|------------------|----------|------------------|------|
| Source           | Act Type | Budget (\$1000s) | FTEs |
| Year 1:          |          |                  |      |
| Year 2:          |          |                  |      |
| Year 3:          |          |                  |      |
| Year 4:          |          |                  |      |
| Total:           |          | 0.00             | 0.0  |

| -----UNFUNDED----- |           |                  |      |     |
|--------------------|-----------|------------------|------|-----|
| Source             | Act Type  | Budget (\$1000s) | FTEs |     |
| Year 1:            | TEMP\$-NR | MON              | 2.00 | 0.0 |
| Year 2:            | TEMP\$-NR | RES              | 2.00 | 0.0 |
| Year 3:            | TEMP\$-NR | MIT              | 3.00 | 0.0 |
| Year 4:            |           |                  |      |     |
| Total:             |           | 7.00             | 0.0  |     |

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(s): EXCL

EXPLANATION: 516 DM6 APP. 7.4 E

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-N-026.000

PS Page: 0131

PROJECT NUMBER: MIMA-N-026.000

TITLE: DEFENSIBLE FIRE ZONES AROUND HISTORIC STRUCTURES

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 6.00

SERVICEWIDE ISSUES: C17 CTRL ENV IMPAC

CULTURAL RESOURCE TYPE CODE: STRC

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

Many of the historic structures in the park are bordered by combustible forest or brush. This close proximity has the potential for transferring fire from vegetation to structure in the event of a wildfire. Such an occurrence can lead to irretrievable loss of historic resources.

The construction of defensible fire zones around historic structures is called for in the prevention program outlined in the park Fire Management Plan. The park cannot afford this project under its operating base and therefore will look to other sources for funding.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

In consultation with the Regional Fire Management Officer (FMO), assess the grounds surrounding all park historic structures and develop a prioritized list, based upon risk, of defensible fire zones to be constructed. Hire two temporary laborers to conduct the zone construction. The work will be accomplished using hand tools, gas powered weedwackers, and chain saws. Zones will be cleared of combustible vegetation to a width of thirty feet. Supervision of temporary employees will be provided by the park FMO. The park FMO will develop a defensible zone maintenance plan to insure the future integrity of the zones.

## BUDGET AND FTEs:

-----FUNDED-----  
Source Act Type Budget (\$1000s) FTEs

Year 1:

Year 2:

Year 3:

Year 4:

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-N-026.000

PS Page: 0132

Total:

0.00

0.0

## -----UNFUNDED-----

|         | Source    | Act Type | Budget (\$1000s) | FTEs |
|---------|-----------|----------|------------------|------|
| Year 1: | TEMP\$-CR | PRO      | 6.00             | 0.0  |
| Year 2: |           |          |                  |      |
| Year 3: |           |          |                  |      |
| Year 4: |           |          |                  |      |

Total:

6.00

0.0

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(s): EXCL

EXPLANATION: 516 DM6 App. 7.4 C(19)

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-N-027.000

PS Page: 0133

PROJECT NUMBER: MIMA-N-027.000

TITLE: DEVELOP PARKWIDE TREE MANAGEMENT PLAN

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 25.00

SERVICEWIDE ISSUES: C11 CULT LAND REPT

CULTURAL RESOURCE TYPE CODE: CULL

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

The variety of tree species are a significant attribute of both the historic and formal landscape within Minute Man NHP. For the North Bridge Visitor Center area alone many of the trees represent original plantings by the Buttrick's family. In other areas of the park, such as the North Bridge, Merriam House, Hartwell Tavern, Smith House, the Wayside, Bullet Hole House and Maintenance Barn/Carriage House, the trees represent a part of the historic landscape. A Tree Management Plan would be critical in establishing a comprehensive plan that would identify and preserve these specimens and the landscape therein.

The Tree Management Plan is also needed to safeguard against hazardous trees

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Provide the park with a Tree Management Plan. This would entail:

1. Identification of trees and/or tree locations historically/aesthetically significant to the landscape of specific park sites;
2. Documentation of existing trees or potential tree locations;
3. Research and recommend replacement species;
4. Develop a maintenance plan for the monitoring, care and upkeep of tree species identified in step 1.;
5. Include a component which addresses managing hazardous trees.

## BUDGET AND FTEs:

|         |        |          | FUNDED           |      |
|---------|--------|----------|------------------|------|
|         | Source | Act Type | Budget (\$1000s) | FTEs |
| Year 1: |        |          |                  |      |
| Year 2: |        |          |                  |      |
| Year 3: |        |          |                  |      |
| Year 4: |        |          |                  |      |

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-N-027.000

PS Page: 0134

=====

|        |      |     |
|--------|------|-----|
| Total: | 0.00 | 0.0 |
|--------|------|-----|

-----UNFUNDED-----

|         | Source    | Act Type | Budget (\$1000s) | FTEs |
|---------|-----------|----------|------------------|------|
| Year 1: | RG-RM-NAT | MIT      | 25.00            | 0.0  |
| Year 2: |           |          |                  |      |
| Year 3: |           |          |                  |      |
| Year 4: |           |          |                  |      |

=====

|        |       |     |
|--------|-------|-----|
| Total: | 25.00 | 0.0 |
|--------|-------|-----|

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(s): 106

EXPLANATION:

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-N-028.000

PS Page: 0135

PROJECT NUMBER: MIMA-N-028.000

TITLE: MONITOR WETLAND PLANT SPECIES

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 4.00

SERVICEWIDE ISSUES: N05 NON-NAT PLANTS C11 CULT LAND REPT

CULTURAL RESOURCE TYPE CODE: SITE

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

Human development and recreational use puts pressures on wetlands which can impact wetland plant species occurring in, on or adjacent to wetland areas. Nutrient runoff from household septic systems and potential municipal groundwater withdrawal and the subsequent lowering of the water table could alter the basic formation of some of MIMA's wetlands permitting for increased encroachment of upland plants. Inventories have been completed that identify wetland species within MIMA. However, no quantitative monitoring has been implemented to document changes in species communities from human impacts. Field monitoring that documents changes in wetland plant species communities will allow park managers to have quantitative data to support decisions about wetland protection actions.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

1. Combine all existing data related to wetland locations and wetland plant inventories and map in the park GIS.
2. Develop monitoring procedure: Request assistance from the Water Resources Division and Regional Natural Resource Management personnel to establish standards for classification and sampling wetland plant species and communities. Establish monitoring plots for all significant wetland areas.

## BUDGET AND FTEs:

-----FUNDED-----  
Source Act Type Budget (\$1000s) FTEs

Year 1:

Year 2:

Year 3:

Year 4:

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-N-028.000

PS Page: 0136

=====  
Total: 0.00 0.0

-----UNFUNDED-----  
Source Act Type Budget (\$1000s) FTEs  
Year 1: PKBASE-NR MON 1.00 0.0  
Year 2: PKBASE-NR MON 1.00 0.0  
Year 3: PKBASE-NR MON 1.00 0.0  
Year 4: PKBASE-NR MON 1.00 0.0  
=====  
Total: 4.00 0.0

## (OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS:

The absence of monitoring could result in undetected damage and destruction of significant wetlands and wildlife habitat.

COMPLIANCE CODE(s): EXCL EA

EXPLANATION: 516 DM6 APP. 7.4 E(2)

Proposal Date: 94

PROJECT STATEMENT SHEET

MIMA-N-029.000

PS Page: 0137

PROJECT NUMBER: MIMA-N-029.000

TITLE: EVALUATE CULTURAL LANDSCAPES FOR NATIONAL REGISTER

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 30.00

SERVICEWIDE ISSUES: N08 CULT LANDSCAPE C01 INADEQUATE DOC

CULTURAL RESOURCE TYPE CODE: COMB

10-238 PACKAGE NUMBER:

PROBLEM STATEMENT:

The Cultural Landscape Report (University of Massachusetts, 1993) identifies several cultural landscapes in the park which may meet the requirements for listing in the National Register. This determination can only be established after a comprehensive investigation and evaluation has been completed.

DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

The Cultural Landscape Inventory (CLI) forms are used to identify the character defining features of a landscape. The landscape is classified into eleven "characteristics" for "reading" a rural landscape and for understanding the natural and cultural forces that shaped it (Bulletin #30, Guidelines for Evaluating and Documenting Rural Historic Landscapes, McClelland, 1991, pg. 3). The following character-defining features or characteristics are inventoried: spatial organization, response to natural features, land use, cultural traditions, views and vistas (historic), circulation, vegetation, cluster arrangement, structures, archaeological sites and small scale features. Applying these evaluation factors to cultural landscapes is the process for determining an area's eligibility for National Register listing. It is recommended that each of the below listed landscapes be evaluated and that the above method of evaluation be used:

1. The North Bridge Area
2. The Wayside
3. Meriam's Corner
4. Minot Farm
5. Jones/Stowe Farm
6. Brooks Farm
7. Bloody Angles/Hartwell Farm & Tavern
8. Nelson Farm
9. Fiske Hill

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-N-029.000

PS Page: 0138

## BUDGET AND FTES:

-----FUNDED-----  
Source      Act Type      Budget (\$1000s)      FTES

Year 1:

Year 2:

Year 3:

Year 4:

=====

|        |      |     |
|--------|------|-----|
| Total: | 0.00 | 0.0 |
|--------|------|-----|

-----UNFUNDED-----  
Source      Act Type      Budget (\$1000s)      FTES

Year 1:      CRPP      RES      15.00      0.0

Year 2:      CRPP      RES      15.00      0.0

Year 3:

Year 4:

=====

|        |       |     |
|--------|-------|-----|
| Total: | 30.00 | 0.0 |
|--------|-------|-----|

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(s): EXCL

EXPLANATION: 516 DM2 APP. 2, 1.6

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-N-030.000

PS Page: 0139

PROJECT NUMBER: MIMA-N-030.000

TITLE: ADD LAW ENFORCEMENT POSITIONS

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 160.00

SERVICEWIDE ISSUES: N22 VIS USE-DEV ZN C20 INADEQ SECURIT

CULTURAL RESOURCE TYPE CODE: COMB

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

Over the last few years the protection and law enforcement (RM & VP) workload has increased considerably at Minute Man NHP due to several factors: The park has expanded to over 1,000 acres, has assumed responsibility for 10 additional buildings, now has 35 monitored alarm systems in three towns, averages 1,000,000 visitors a year, has over 5,000,000 commuters a year, has dozens of special events each year, has experienced increased illegal activity (vandalism, ARPA, drugs, dumping, burglary, theft, disorderly conduct, etc.) and has constructed two additional miles of trail requiring additional protection coverage. Additionally, the same division coordinates resource management activities which have increased greatly due to the implementation of the new GMP and several planning projects requiring research and field work. The Division of Resource Management and Visitor Protection has remained the same size with three permanent and 2 seasonal positions for over 13 years. Due to the increased workload the staff has been stressed and the division is not able to provide consistent, adequate coverage for natural and cultural resources or to park visitors. If staff levels are not increased personnel and resources will be at an increased level of risk for a sustained period of time.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

In order to meet the present and near future protection needs an additional 4.5 FTE's are needed for law enforcement position. One for a GS-025-07/09, Lead Park Ranger, and three for GS-02505/07, field law enforcement positions. Half an FTE is needed for support services.

The additional positions are needed to provide protection coverage for the increased number of historic structures/alarms, the present and future trail system, the restored cultural landscapes and for the anticipated increase in visitation.

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-N-030.000

PS Page: 0140

## BUDGET AND FTEs:

-----FUNDED-----  
Source Act Type Budget (\$1000s) FTEs

Year 1:

Year 2:

Year 3:

Year 4:

=====  
Total: 0.00 0.0

-----UNFUNDED-----  
Source Act Type Budget (\$1000s) FTEs

Year 1: PKBASE-NR PRO 160.00 4.5

Year 2:

Year 3:

Year 4:

=====  
Total: 160.00 4.5

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(s): EXCL

EXPLANATION: 516 DM2 APP. 2, 1.4

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-N-031.000

PS Page: 0141

PROJECT NUMBER: MIMA-N-031.000

TITLE: LIASON TO CONSERVATION COMMISSIONS &amp; COMMUNITIES

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 20.00

SERVICEWIDE ISSUES: N06 LAND USE PRAC N16 NEAR-PARK DEV

CULTURAL RESOURCE TYPE CODE: COMB

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

Minute Man National Historical Park is located near a major metropolitan area, it shares a common boundary with the second busiest airport in New England and is within three towns and therefore subject to numerous potential impacts from development outside the park. In order to remain informed it must establish consistent liaison with the three local Conservation Commissions.

The park should also be a consistent participant in other organizations dealing with land use matters including HATS (Hanscom Area Towns Committee), The Hanscom Field Advisory Commission and the Part 150 Committee (Air Traffic Noise Study). Additional groups that the park should stay informed about include The Sudbury, Assabet and Concord Rivers Wild & Scenic River Study Committee, MAGIC (Minuteman Advisory Group on Interlocal Coordination) and other informal groups established to respond to potential ecological or scenic threats which could affect the park. Lack of available staff/time is the major obstacle that precludes active, frequent participation in any of the above groups.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Establish procedure to ensure near 100% participation in area meeting about issues that could affect Minute Man National Historical Park. Establish positive liaison with each of the local Conservation Commissions and their respective conservation administrators. Remain fully informed of all actions which could impact park land or its historic view sheds. Subscribe to the Environmental Monitor. Respond in a timely manner to all request from local agency's for comments on proposed development projects. The addition of half an FTE is needed accomplish the above.

## BUDGET AND FTEs:

-----FUNDING-----  
Source Act Type Budget (\$1000s) FTEs

Year 1:

Proposal Date: 94

## PROJECT STATEMENT SHEET

MIMA-N-031.000

PS Page: 0142

Year 2:

Year 3:

Year 4:

|        |      |     |
|--------|------|-----|
| Total: | 0.00 | 0.0 |
|--------|------|-----|

| -----UNFUNDED----- |          |                  |      |
|--------------------|----------|------------------|------|
| Source             | Act Type | Budget (\$1000s) | FTEs |

|         |               |       |     |
|---------|---------------|-------|-----|
| Year 1: | PKBASE-NR MON | 20.00 | 0.5 |
|---------|---------------|-------|-----|

Year 2:

Year 3:

Year 4:

|        |       |     |
|--------|-------|-----|
| Total: | 20.00 | 0.5 |
|--------|-------|-----|

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS: N/A

COMPLIANCE CODE(s): EXCL

EXPLANATION: 516 DM6 APP. 7.4 E

Proposal Date: 94

