

Draft Environmental Assessment National Memorial Cemetery of the Pacific Honolulu, Hawaii



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Department of Veterans Affairs
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ABSTRACT

The United States Department of Veterans Affairs (VA), National Cemetery Administration (NCA) operates the National Memorial Cemetery of the Pacific located in Honolulu on the island of Oahu, Hawaii. Originally opened in 1949, the 116-acre National Memorial Cemetery of the Pacific is located within the Punchbowl Crater and is the only national cemetery in the State of Hawaii. The NCA is projecting gravesite depletion by 2015. The purpose of this undertaking is to construct an expansion of the cemetery to continue providing burial options to the approximately 83,000 veterans living within 75 miles around Honolulu, as well as the approximately 22,000 veterans who live in Hawaii but outside of the 75 miles radius. This represents a population of approximately 105,000 veterans.

The National Environmental Policy Act (NEPA) requires by law that the VA evaluate any effect its actions might have on the environment. This Environmental Assessment (EA) of the proposed action serves the purpose of meeting that requirement.

The proposed improvements will require the demolition of the existing Public Information Center (PIC)/Administration building within the crater. A new facility will be constructed on the outside of the crater on a 5 acre area currently maintained as lawn. Columbaria plazas will be constructed in two locations within the crater; one where the existing PIC/Administration building is located and one on the slope adjacent to the Memorial Plaza and south of the American Battle Monuments Commission Memorial. These columbaria will provide approximately 12,300 niches. Sidewalk improvements along the entry drive are also proposed to improve pedestrian safety.

The development is expected to result in minor and predominately short-term impacts which will be mitigated as noted in this document. Based on this EA, no findings of environmental significance were identified. A Finding of No Significant Impact (FONSI) is appropriate for the development of the Preferred Alternative and an Environmental Impact Statement (EIS) is not warranted.

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**NATIONAL MEMORIAL CEMETERY OF THE PACIFIC
ENVIRONMENTAL ASSESSMENT**

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1.0 PROJECT PURPOSE AND DESCRIPTION OF NEED

1.1 PROJECT PURPOSE

The National Cemetery Administration (NCA) is the entity within the Department of Veterans Affairs (VA) that is responsible for establishing, constructing and maintaining national cemeteries in order to provide reasonable access to burial benefits for veterans pursuant to the provision of the National Cemeteries Act of 1973 and other statutes. Under this mandate, the NCA is responsible for the operation and maintenance of existing national cemeteries and construction of new national cemeteries. The NCA generally considers reasonable access to burial benefits to mean that a first interment option is available within 75 miles of the veterans' residence. Due to the distant location of the National Memorial Cemetery of the Pacific (NMCP) from the United States mainland, reasonable access is generally extended to the entire State of Hawaii.

For veterans in Hawaii, the NMCP is the only national cemetery available. The nearest state veterans cemeteries are the Hawaii State Veterans Cemetery also located in Honolulu, the East Hawaii Veterans Cemetery-No. II (East Hawaii Veterans Cemetery-No. I is closed) and the West Hawaii State Veterans Cemetery, both located on the Island of Hawaii (approximately 180 miles to the southeast), the Kauai Veterans Cemetery located on the Island of Kauai (approximately 120 miles to the northwest), the Maui Veterans Cemetery, located on the Island of Maui (approximately 100 miles to the southeast), the Molokai Veterans Cemetery located on the Island of Molokai (approximately 60 miles to the southeast) and the Lanai Veterans Cemetery located on the Island of Lanai (approximately 70 miles to the southeast).

The NMCP is comprised of approximately 116 acres in and on the slopes of the Punchbowl Crater, 0.75 miles northeast of downtown Honolulu on the island of Oahu, Hawaii (Figure 1-1 and 1-2). The NCA is projecting burial site depletion in the NMCP by 2015. The purpose of the proposed action is to fulfill a need for continued access to burial benefits for veterans in Honolulu and the State of Hawaii. The project aims to provide improvements to NMCP while honoring veterans and their families with dignity, respect and compassion.

This Environmental Assessment (EA) has been prepared to evaluate the environmental consequences of the proposed improvements. The development is expected to result in minor and predominately short-term impacts which will be mitigated as noted in this document. The proposed improvements will ensure that the eligible veterans of the State of Hawaii will continue to have the opportunity to be laid to rest in a national veterans cemetery. Detailed plans for the layout, design and specifications for the proposed expansion areas will not be finalized until the EA process has been completed.

1.2 DESCRIPTION OF NEED

The NCA is projecting burial site depletion in the NMCP in 2015. The proposed action will fulfill a need for continued availability of a national veterans' cemetery to serve the approximately 83,000 veterans living within 75 miles around Honolulu, as well as the approximately 22,000 veterans who live in Hawaii but outside of the 75 miles radius representing a population of approximately 105,000. In addition, the existing Public Information Center (PIC)/Administration building, which was built in 1949, has had no major renovations over the past 63 years. This facility is outdated and, due to its condition, does not meet the needs of visitors and administrative staff.

The proposed improvements will occur on approximately 10 acres of the current property to provide additional capacity. This project will construct a new PIC/Administration building, approximately 12,300 niches distributed in two columbaria locations and a new memorial wall all within the existing cemetery boundaries.

Figure 1-1: Vicinity Map



Source: USGS Topographic Map, Honolulu Quad, 1998

Figure 1-2: Aerial Photograph



--- Approximate Property Boundary



2.0 ALTERNATIVES

2.1 DEVELOPMENT OF ALTERNATIVES

A study of the cemetery was completed to identify possible areas for expansion of columbaria for the NMCP. Columbaria provide the highest capacity for available land resource of all the types of burials available within the national cemetery system. Nineteen potential sites (Figure 2.1) were analyzed for columbarium construction (KI Concepts, 2010). Key evaluation factors for determining suitability included approximate capacity, constructability, topography, accessibility, potential visitor conflicts, cost factors and visual impacts. Each of these sites was assigned a priority of 1, 2 or 3 based on this evaluation and summarized in Table 2-1.



Source: KI Concepts

Figure 2-1: Location of Alternative Columbarium Sites

This analysis substantiated a previously developed concept that the site of the existing PIC/Administration building (Figure 2-1, Site 1) would be ideally suited as a columbarium site. Consequently, alternative sites for the PIC/Administration building were evaluated. The PIC/Administration complex needs to be easily located by visitors not familiar with the site, ideally in close proximity to the entry. Building sites along Pūowaina Drive, the entry road to the cemetery, are severely constrained by a steep exterior crater rim to the north and steep slopes to the south. The only alternative for a PIC/Administration building site is on a 5 acre area just south of the Pūowaina Drive/Tantalus Drive intersection (Figure 2-1, Site 19).

Table 2-1: Summary of Alternative Columbarium Sites

Site		Approx Number of Niches			Notes
		Priority 1	Priority 2	Priority 3	
1	Existing Administration and Public Information Buildings	6960			Flat, accessible, ease of construction
2	Overlook Plaza adjacent to Entrance			800	Highly Visible
3	Area North of the Tunnel Entrance		800		Requires removal of maintenance equipment
4	Slope above Burial Section H Adjacent to Outer Drive			1200	Highly visible; difficult topography
5	South Side of Intersection of Outer Drive and Memorial Walk above Section K			550	Highly visible; high-pedestrian traffic area
6A	Slope above Memorial Plaza and Section L	1736			Divided into North 6A and South 6B
6B	Slope above Memorial Walk and Section III	3832			Divided into North 6A and South 6B
7	Overlook			480	Conflicts between cemetery user and tourists
8	Open Area adjacent to the Existing Restroom		800		May not be available if ABMC is constructed
9	Slope above Burial Section L		800		Construction access poor
10	Back of Memorial Walls			400	Visual and user impacts on memorial
11	Slope behind Chapel			400	Back door of Memorial; utility relocation required
12	Slope above Burial Section X		2700		Construction access poor
13	Existing Committal Shelter Plaza			300	Preserve for services until other sites are used up
14	Area between Committal Plaza and Court 12 of Existing Columbarium			1200	Highly visible from surrounding neighborhoods
15	Infill of Existing 'New' Columbarium			1160	Conflicts with existing columbarium and maintenance
16	Infill between Old and New Columbarium			280	Conflicts with visitors to existing Columbarium
17	Infill in Original Columbarium			2000	Conflicts with visitors to existing Columbarium
18	Upper Slope above Existing Columbarium				Eliminated due to severe topography and poor construction access
19	Five acre parcel outside of Crater				Eliminated due to location outside of crater

Source: KI Concepts

2.2 ALTERNATIVES RETAINED FOR DETAILED ANALYSIS

2.2.1 No Action Alternative

Under this alternative, the NCA would not develop additional burial areas at the existing NMCP. Capacity at the existing cemetery is estimated to be depleted by approximately 2015. As burial space in the existing cemetery becomes limited, veterans would be forced to use private cemeteries for local burial services. The No Action Alternative is not preferable as the cemetery would be unable to service the estimated 105,000 eligible veterans in the State of Hawaii.

2.2.2 Preferred Alternative

The preferred alternative for the new PIC/Administration building and new columbaria and memorial wall locations has been developed to create a comprehensive working solution to address NCMP's near- and long-term ability to serve Hawaii's veteran community. The goal has been to employ a regionally sensitive approach to accommodate NMCP's capacity needs while respecting and celebrating the unique and special qualities of the existing cemetery.

The preferred alternative includes the following elements in four distinct parts of the cemetery (Figure 2-2):

- Construction of a new PIC/Administration building on the 5 acre site along Pūowaina Drive on the outside of the crater;
- Construction of Columbarium 13 with a capacity of approximately 7,000 niches at the site of the existing PIC/Administration building;
- Construction of Columbaria 14/15 with a capacity of approximately 5,300 niches on the slope adjacent to the Memorial Plaza and south of the American Battle Monuments Commission Memorial; and,
- Construction of a memorial wall with a minimum of 450 memorial markers at a single location near the existing maintenance building at the south rim of the crater.

Each of these elements is summarized from the National Memorial Cemetery of the Pacific Columbarium and Cemetery Improvements, Schematic Design 2 package prepared by KI Concepts (2012) and described in greater detail below.

New PIC/Administration Building

A new PIC/Administration building will be constructed on the 5 acre site located on the northeastern exterior flank near the entrance road that leads into the Punchbowl Crater west of the intersection of Pūowaina Drive and Tantalus Drive (Figure 2-3 and 2-4).

The building will be accessed by a new drive, parallel to Pūowaina Drive that provides cortege, visitor and employee parking. An entry plaza with a drop-off zone welcomes visitors to the PIC/Administration complex. The entry plaza flows into the lanai formed by the PIC and the restroom where expansive views over Honolulu can be enjoyed. This entry plaza is envisioned as a "welcome mat" with a cut stone pattern resembling a woven lauhala (a Pandanus leaf) mat. While the general public will gravitate to the glass framed PIC component, a more intimate entry court off the entry plaza will serve as the entry into the Administration building.



Figure 2-2: Preferred Alternative Site Locations
 (1. Columbarium 13; 2. PIC/Administration Building; 3. Columbaria 14/15; 4. Memorial Wall)



Source: KI Concepts

Figure 2-3: PIC/Administration Building Site Plan



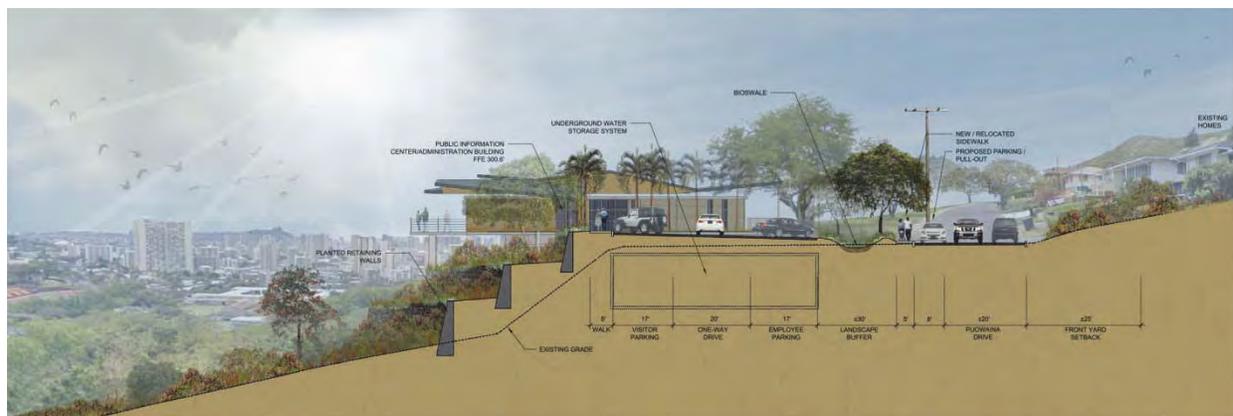
Parking and cortege are screened from a new sidewalk along Pūowaina Drive and the homes across the street to the greatest degree possible by a landscape buffer planting of trees, shrubs and groundcover which includes a bioswale feature. The bioswale will help filter stormwater runoff from the paved areas.

New on-street parking for 12 cars is proposed to help reduce traffic congestion along Pūowaina Drive in front of the homes to the north. The two ends of the site still feature open lawn and existing trees to retain the park-like open space character. Off the slope edge, restoration planting will repair and soften the slope disturbed by building and retaining wall construction. Planting will consist of drought tolerant native and ornamental plants adapted to this area.



Section A

Source: KI Concepts



Section B

Source: KI Concepts

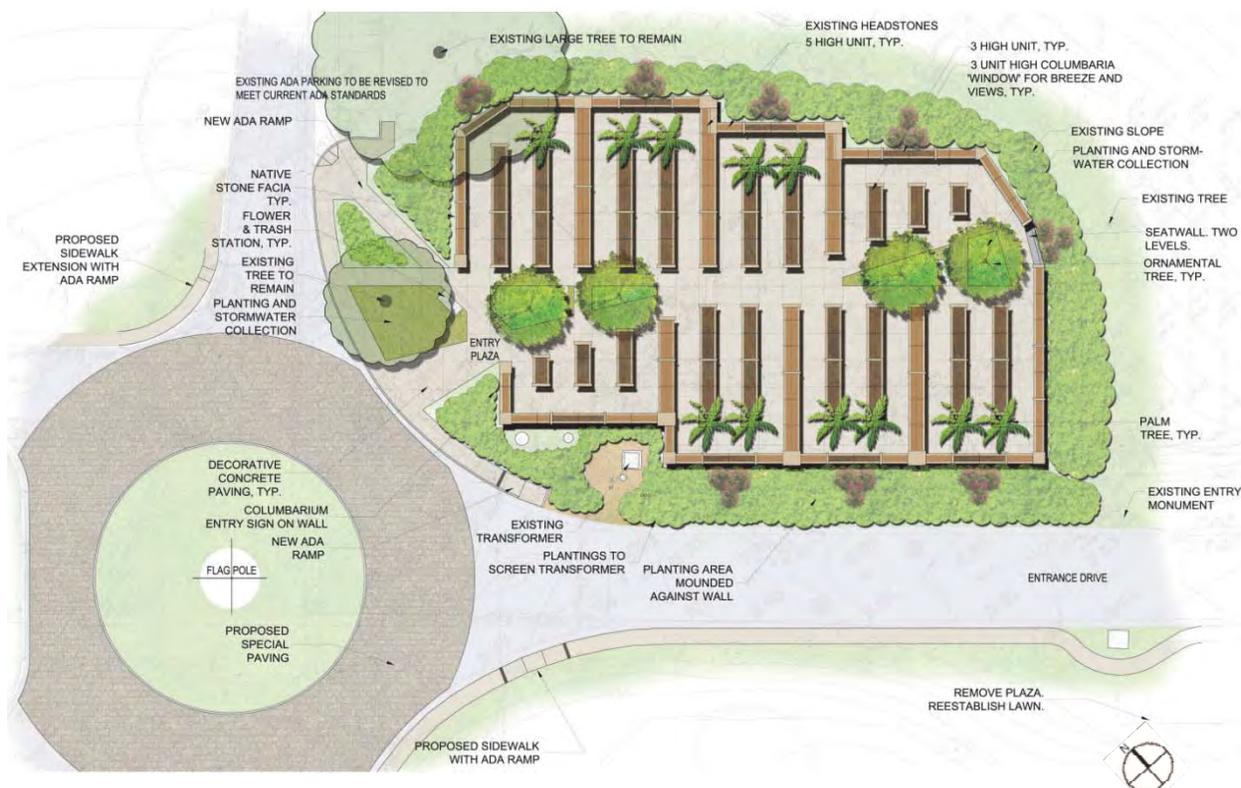
Figure 2-4: PIC/Administration Building Sections

Columbarium 13 at Existing PIC/Administration Building Site

The design for Columbarium 13 focuses on creating a strong visual connection to the cemetery’s major axis – the central mall, flagpole, and memorial - tying the columbarium to the overall dignity of the entire cemetery (Figure 2-5). The units are pulled back on the west side to create an axis that frames the view. A second axis toward the back of the site leads the visitor’s eye to an ‘open window’ at the back of the columbarium that connects to the adjacent gravesites. At the back of the complex on the main axis is a two-tiered seatwall which provides a point of respite for visitors but also allows visual access to the gravesites beyond. Approximately 7,000 niches are arranged in eight courts designed to create identifiable spaces for the visitor. Units of five niches high frame the court exteriors. The interior units are designed as three niches high, so that visitors can see over them.

To integrate the units into the landscape and to create opportunity for a garden at the main entry, the complex is slightly lower than the adjacent grades. On the east side, the units are dug into the hill 2- to 3-

feet while the west side is buried to a height of 3-feet by the soil generated from construction. The exterior walls and the end columns will be faced with native stone similar to that used in the original columbarium. Paving within the complex is likely to be scored concrete for cost and accessibility.



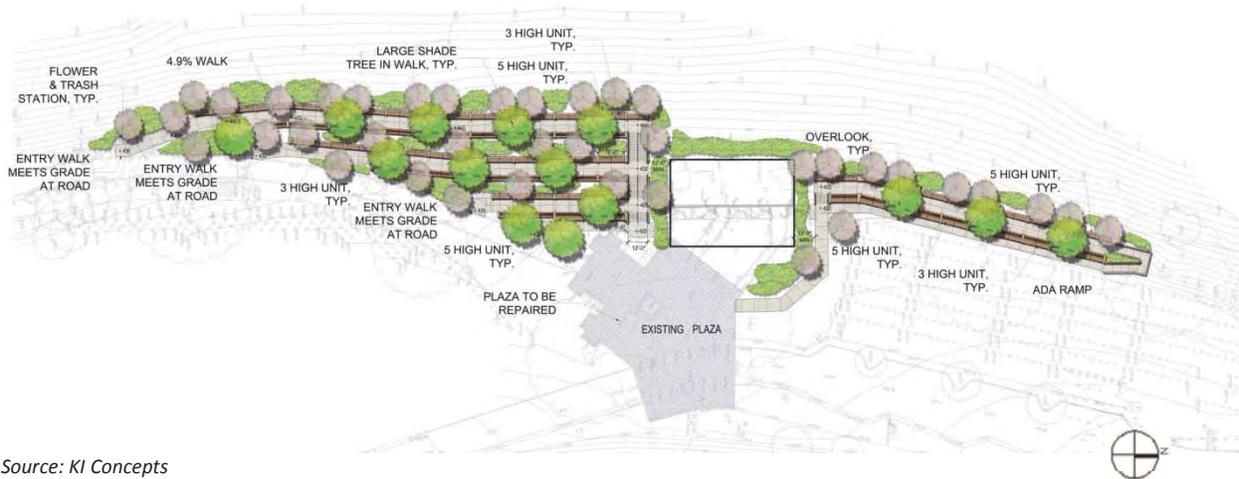
Source: KI Concepts

Figure 2-5: Columbarium 13 Site Plan

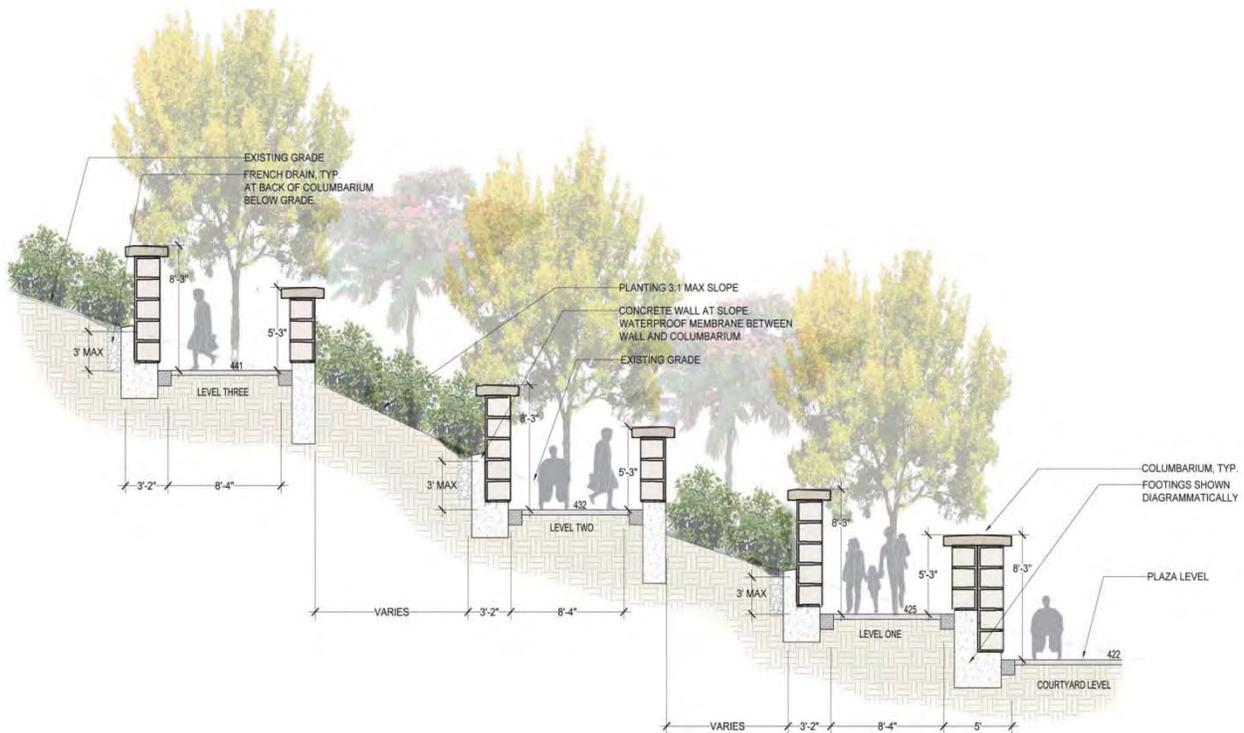
Columbaria 14/15 at Memorial Walk

The design of Columbaria 14/15 takes advantage of the crater rim slopes using columbarium terraces to step down the wall of the crater (Figure 2-6 and 2-7). The columbarium is split into two distinct units, with the left unit, as you face the crater edge, having approximately 3,500 niches and the right unit having approximately 1,800 niches for a total of approximately 5,300 niches. The left side takes advantage of the adjacent Memorial Walk for accessibility and therefore is shown with three terraces. The right side will require construction of new ramps is shown with only one upper terrace as well as with units level with the existing adjacent graves.

The uphill side of each terrace has units of five niches high with units of three niches on the downhill, to allow views out and to mimic the topography of the hill.



Source: KI Concepts
Figure 2-6: Columbaria 14/15 Site Plan



Source: KI Concepts
Figure 2-7: Columbarium 15 Section

Memorial Wall

The design for the memorial wall responds to its site location, maximizing the spectacular views overlooking Honolulu (Figure 2-8). The memorial wall is created by two groups of plaque walls, seating and shade trees, creating a small oases for visitors. The single-sided southerly plaque walls help retain the existing slopes to allow for the creation of an accessible route through the site. The northerly plaque

walls are double-sided. With both walls, height has been held to 4-feet-2 inches to allow most visitors to see over the wall. Seating, with ample shade trees, has been placed in various locations for pause and reflection as well as to enjoy the impressive views.

Columns divide the wall into 12-foot sections, each of which accommodates 60 niches. The initial program calls for 450 plaques, but through this selected configuration 600 plaques are provided. To blend with the natural topography, the columns will be clad in native stone. Special paving materials or patterns will accent the site areas around the walls.



Source: KI Concepts

Figure 2-8: Memorial Wall Site Plan

The preferred alternative will also include improvements to the existing sidewalk and internal circulation system. Currently, maintenance vehicles and pedestrians share use of the Pūowaina Drive entry road which lacks a sidewalk of sufficient width for maintenance equipment. In order to improve public and staff safety, a 6- to 8-foot wide sidewalk is proposed along the east side of the Pūowaina Drive connecting the new PIC/Administration building and the cemetery.

3.0 AFFECTED ENVIRONMENT AND ENVIRONMENTAL CONSEQUENCES OF THE ALTERNATIVES

As federal funding is required for cemetery operations, this EA was prepared in accordance with the National Environmental Policy Act (NEPA), the Council on Environmental Quality (CEQ) regulations implementing NEPA (40 CFR 1500-1508) and VA regulations. The VA policy includes provisions to act with care in carrying out its mission of providing services for veterans and to ensure it does so consistently with nation environmental policies. Specifically, the VA shall ensure that all practical means and measures are used to:

- Protect, restore and enhance the quality of the human environment;
- Avoid or minimize adverse environmental consequences, consistent with other national policy considerations;
- Prepare concise and clear environmental documents which shall be supported by documented environmental analysis; and,
- Preserve historical, cultural and natural aspects of our national heritage.

The following sections contain discussions of each environmental area evaluated, including a description of existing conditions and potential impacts associated with the proposed plans. The findings are based on research to obtain background information on the site and to describe the environmental consequences. The work was conducted in accordance with NEPA Interim Guidelines for Projects (VA, 2010).

3.1 AESTHETICS

Aesthetics refers to the visual resources, including natural and man-made features that give a particular piece of land its aesthetic properties. This discussion also includes an assessment of views to and views from a project.

Existing Conditions

The NMCP is located in the base and along the lower slopes of the Punchbowl Crater. The cemetery is approximately 130-feet below the crater rim. This creates a unique situation in that the viewshed within the crater is limited, primarily, to the crater itself. Some views of higher elevation areas outside of the crater exist to the east. The cultivated landscape within the cemetery consists of a wide mix of plant species and is well maintained. Flush markers are set within a well maintained lawn. The upper slopes of the crater are dominated by a mix of naturalized trees and shrubs.

Structures within the cemetery include the PIC/Administration building, a collection of maintenance buildings and the American Battle Monument Commission Memorial (Mouln, 2010). A new columbarium was recently constructed on the eastern lower slopes of the crater. The Memorial Walk is located on the west side of the crater. The walk terminates in an overlook on the crater rim providing dramatic views to Diamondhead, Honolulu and the Pacific Ocean.

The Pūowaina Drive entry road, outside of the crater, provides more direct views to the surrounding neighborhoods and downtown Honolulu with the Pacific Ocean in the background. Seventeen monkeypods (*Samanea saman*) have been planted along the eastern side of the road. A cluster of

single-family housing occupies the western side of the road to the north. The steep outer slopes of the crater line the remainder of the road on the west slope.

The Punchbowl Crater is a dominant and respected landscape feature in the area. Views to the vegetated outer slopes exist from multiple locations surrounding the crater. The seventeen monkypods noted above are visible from various locations east of the site.

Consequences of the Alternatives

The proposed improvements within the crater include the construction of columbaria in two locations. While these will be new structures, they will be designed to fit into the lower crater slopes. Similar to the recently constructed columbarium, they will utilize native materials and colors and screened to the extent possible in order to minimize the visual impact and maintain the integrity of cemetery setting (Figures 3-1 to 3-4). No other aesthetic impacts are anticipated within the crater.

The combined PIC/Administration building will be a new structure on the outer crater slopes. As such, this building will be designed with an architectural style that is appropriate for the setting. The Schematic Design 2 report (KI Concepts, 2012) notes that the composition and appearance of the building from the west, which is the public approach side and is closest to neighborhood houses, will balance orientation for the public with visual restraint for the neighbors (Figure 3-5). The solid-appearing part of the building, clad in stone, includes simple wall surfaces, with only a few windows and doors. This approach also contributes to privacy for the administrative functions. Framed by these solid sections, the PIC pavilion and covered terrace welcome the visitor and are open to the stunning view beyond.

The composition and appearance of the building from the east is related but different (Figure 3-6). This difference comes from response to light, views, and visibility of the building from across the valley. The roof sections and the building plan, which responds to the hill's contours, are more apparent. Vertical fins at the east-facing windows manage the low-angle sunlight, but also make the exterior character delicate and residential-scale. Dark lava or basalt stone clads the exterior of the lower level to assist in the building's nestling into the landscape. A growing railing for the lower-level lanai further integrates the building into the landscape.

The guiding principles for the exterior materials are appropriateness as a facility that participates in the experience of the national cemetery, durability, alignment with sustainability goals, harmonious relationship with the neighborhood character and natural landscape, and transparency. The color palette draws on tones and colors that integrate with the landscape around the building.

This new structure will have an impact on the aesthetics and views of the Punchbowl Crater. A careful approach to engineering and architectural design will be implemented to ensure that this building fits within the context of the site. As a result, the impacts of this construction should be minor in nature. It is anticipated that the existing monkypods will be protected or relocated as necessary resulting in no impact to the aesthetic experience they currently provide

Under the No Action Alternative there would be no additional impacts on the aesthetics of the area.



Before: Columbarium 13



After: Columbarium 13

Figure 3-1: Columbarium 13 - View from Southeast



Before: Columbarium 13



After: Columbarium 13

Figure 3-2: Columbarium 13 - View from Northwest



Before: Columbarium 14



After: Columbarium 14

Figure 3-3: Columbarium 14 - View from South



Before: Columbarium 15



After: Columbarium 15

Figure 3-4: Columbarium 15 - View from Southeast



Before: Building 1002 Site



After: Building 1002 Site

Figure 3-5: PIC/Administration Building - View from Northeast



Before: Building 1002 Site



After: Building 1002 Site

Figure 3-6: PIC/Administration Building - View from Southeast

3.2 AIR QUALITY

Air quality refers to the concentration of air contaminants in a specific location. Air quality is determined by the type and amount of pollutants emitted into the atmosphere, the size and topography of the air basin and the prevailing meteorological conditions.

Existing Conditions

The Department of Health, Clean Air Branch, monitors the ambient air in the State of Hawaii for various gaseous and particulate air pollutants. The U.S. Environmental Protection Agency (EPA) has set national ambient air quality standards (NAAQS) for six criteria pollutants: carbon monoxide, nitrogen dioxide, sulfur dioxide, lead, ozone, and particulate matter (PM₁₀ and PM_{2.5}). Hawaii has also established a state ambient air standard for hydrogen sulfide. The primary purpose of the statewide monitoring network is to measure ambient air concentrations of these pollutants and ensure that these air quality standards are met. The stations are maintained and the data are collected by the Air Surveillance and Analysis Section of the State Laboratories Division.

Air pollution is caused by many different man-made and natural sources. There are industrial sources of pollution, such as power plants and refineries; mobile sources, such as cars, trucks, and buses; agricultural sources, such as cane burning; and natural sources, such as windblown dust and volcanic activity. In 2009, the state maintained 13 air monitoring stations on 3 islands. Most commercial, industrial, and transportation activities and their associated air quality effects occur on Oahu, where 6 of the stations are located. Two of these stations are located in the Honolulu area.

Based on review of State of Hawaii air quality data (State of Hawaii, 2010), the state is in attainment of all NAAQS, with the exception of localized exceedances of sulfur dioxide and PM_{2.5} resulting from the Kilauea volcano in 2008.

Consequences of the Alternatives

The proposed improvements will have no effect on air quality aside from short-term impacts associated with construction activities. These will include emissions from internal combustion engines and dust from earth-moving and building activities. All engines should be properly maintained and a dust mitigation program will be implemented to ensure these emissions are kept to a minimum. Intermittent, short-term emissions may be associated with maintenance activities. It is expected that cemetery staff will maintain their fleet of equipment so emissions are kept to a minimum. The State of Hawaii is in attainment of all NAAQS and no further analysis is required.

Under the No Action Alternative there would be no additional impacts on the air quality of the area.

3.3 CULTURAL RESOURCES

Existing Conditions

All of the project area is located within the boundaries of the VA's National Memorial Cemetery of the Pacific, a National and Hawaii Register of Historic Places-listed historic district. Based on the district's National Register nomination form, within the boundaries of the national cemetery district there is clearly potential for cultural resources that are of archaeological, traditional cultural, and/or architectural

significance. In consultation with the project proponents and Hawaii State Historic Preservation Division (SHPD), it was decided that three separate investigations would be prepared to assess the project's effect on these cultural resources and to support the project's environmental and historic preservation review. The investigations included: 1) an archaeological inventory survey (AIS) to identify archaeological resources and assess potential impacts; 2) a Historic American Building Survey (HABS) documentation of the affected Visitor Center and Administration buildings; and 3) a cultural impact assessment (CIA) to identify and assess the project's potential impacts to traditional cultural resources and practices, including and traditional cultural properties. These documents are under SHPD review.

The VA met with multiple agencies and organizations, including SHPD, to review the documentation and to develop a plan to advance the project. This resulted in a revision of the initial Area of Potential Effect (APE) into two - one inside the crater associated with the columbarium construction and one outside the crater associated with the new PIC/Administration building. The revised APE's have been submitted to SHPD and are pending review. The meeting also resulted in the VA preparing a draft Memorandum of Understanding (MOU) which is also pending SHPD review. Section 106 correspondences with consulting parties and a draft Memorandum of Agreement can be found in Appendix A.

Consequences of the Alternatives

Based on the results of the investigations, the proposed project is not expected to affect significant archaeological resources or historic properties. No mitigation measures are recommended for the project's potential effects on archaeological cultural resources or historic properties.

It is likely, however, based on the project's demolition of historic buildings related to the national cemetery, that the project will proceed under a Memorandum of Agreement (MOA) designed to mitigate the project's effects on historic architecture. Accordingly, it is recommended that the project's MOA include treatment language for the inadvertent discovery of potentially significant archaeological resources, in the unlikely event that they are discovered during project construction. If such finds are made during project construction, all work in the vicinity should stop immediately and the finds should be reported to the VA. Such finds shall be treated following the requirements of the project MOA and/or treated according to the "post review discovery" procedures outlined in 36 CFR Part 800.13.

Based on the information gathered from archival documents, from the companion archaeological inventory survey and from community consultation detail in the CIA report, the following four measures are proposed to mitigate potentially adverse effects on cultural, historic, and natural resources, practices and beliefs.

1. The project may have a direct impact on as-yet undiscovered burials located in subsurface contexts in the subject property. Personnel involved in the development activities will be informed of the possibility of inadvertent cultural finds, including human remains. Should cultural and/or burial sites be identified during ground disturbance, all work should immediately cease, and the appropriate agencies notified pursuant to applicable law.
2. In the event of discoveries of ancestral remains during construction activities, recognized cultural and lineal descendants will be notified and consulted on matters of burial treatment.
3. Recognized cultural and lineal descendants will be granted access rights to conduct traditional and customary burial practices on-site if as-yet undiscovered ancestral remains are discovered during the construction phase.

4. Three traditional cultural sites located within the project area will be memorialized with plaques honoring and recognizing their significance and importance to Native Hawaiian culture. The inscription for the memorial plaques will be provided by the Hawaiian community of Papakolea.

3.4 GEOLOGY AND SOILS

Geology and soils refers to the potential for loss of soils and changes in geological conditions due to rock excavation, soil erosion, soil compaction, soil horizon removal, grading, and cutting and filling operations.

Existing Conditions

The NMCP is located in what is known as the Punchbowl Crater which represents remnants of a volcano that erupted 75,000 to 100,000 years ago. The Punchbowl Crater consists of the Honolulu volcanic series formed predominately as a tuff cone with very limited lava flows. The cone consists mainly of inward and outward beds of tuff. Tuff generally is volcanic ash and cinders that have been welded or fused by heat.

Soils associated with the Punchbowl Crater are classified predominately as Tantalus silty clay loam (USDA, 2010). The crater rim is described as Rock Land.

Tantalus silty clay is generally described as very dark brown to dark reddish brown silty clay loam that is slightly sticky and plastic, with a high shrink potential, low swell potential and a susceptibility to sliding on steep slopes. Rock Land is described as areas where exposed rock covers 25 to 90 percent of the ground surface with very shallow soil cover.

Based on soil borings taken at the site and related analysis (Stewart Engineering, 2010), the description of the Tantalus series does not accurately describe the clayey soils found. These clayey soils are typically very sticky and plastic with high to very high swell potential. The descriptions for Rock Land are generally consistent with the exposed perimeter of the crater except that the predominant rock encountered is tuff rather than basalt and andesite as noted in the Soil Survey.

The soil borings did reveal that the area on the east side of Pūowaina Drive entry has been built up over the years by the dumping of soil, rock, boulders, vegetation and grass clippings from the cemetery grounds. This uncontrolled fill was observed to a depth of approximately 15- to 20-feet below the existing ground surface. The natural tuff found underlying this fill was moderately to slightly weathered, moderately fractured and relatively hard.

Consequences of the Alternatives

The proposed improvements will utilize standard practices for construction in soils and geologic conditions such as those found in the NMCP. There will be no change to geologic conditions or unanticipated loss of soils due to the proposed work. The area of uncontrolled fill along Pūowaina Drive will need to be addressed from a structural engineering perspective to accommodate building construction. The PIC/Administration building location was sited to minimize the earthwork quantity. The use of drilled pier foundations will eliminate over excavation and minimize imported fill material under the building (KI Concepts, 2012). Retaining walls will be used to reduce the limits of the grading and fill materials (5- to 20-feet maximum height). Consequently, the construction and operation of the proposed improvements will have no impact on geology and soils of the area.

Under the No Action Alternative there would be no additional impacts on the geology and soils of the area.

3.5 HYDROLOGY AND WATER QUALITY

Water resources include those portions of the natural environment related to surface and groundwater.

Existing Conditions

There are no natural surface water or groundwater features associated with the project area.

Consequences of the Alternatives

There will be small increase in impervious surface associated with the construction of the proposed columbaria. It is anticipated that stormwater in these locations will be managed through perforated pipe in gravel beds.

It is anticipated that the increased runoff from the PIC/Administration building will be stored on-site before discharging. Approximately 213 cubic yards of storage is required to conform to local drainage standard and Energy Independence and Security Act Low Impact Development (EISA LID) requirements (KI Concepts, 2012). Stormwater runoff from the parking, cortege and portions of the entry plaza will undergo water quality treatment through infiltration via a bioswale in the landscape buffer adjacent to the parking. Stormwater storage can be accommodated utilizing an underground detention system located under the parking areas, taking advantage of the excavation already required for the unsuitable fill to be removed.

The site design will incorporate best management practices (BMP's) as required by applicable federal, state and local rules and regulations, in order to manage stormwater and minimize potential water quality impacts from construction activities. The construction and operation of the proposed improvements will have no effect on water resources.

Under the No Action Alternative there would be no additional impacts to hydrology and water quality in the area.

3.6 WILDLIFE AND HABITAT

The wildlife and habitat section refers to the presence of flora and fauna, protected species and exotic/invasive species that may occur at the site or surrounding area. This section also addresses the potential removal of trees and vegetation from the site.

Existing Conditions

A vegetation resource survey was completed to assess potential impacts to the cultivated landscape as well as the undeveloped vegetated areas within the NMCP (Steve Nimz and Associates, 2010). The investigation observed that there are two distinct vegetation types represented in the area. A cultivated landscape of 46 introduced plant species and two native tree species is associated with the cemetery in the crater. The crater slopes are dominated by a disturbed habitat with a mix of common naturalized

species. No federally-listed or state-listed plant species were observed. No invasive species or unique wildlife were observed.

Consequences of the Alternatives

The proposed improvements are all located on previously disturbed sites. There will be no impact to existing wildlife or sensitive habitat resulting from either the construction or operation of the improvements. It is anticipated that the cultivated landscape species will be protected to the extent possible as part of the construction. The monkeypods along Pūowaina Drive will be protected or relocated as part of this project. Invasive species are a serious concern in Hawaii (State of Hawaii, DLNR, 2011). Construction and landscape operations associated with the cemetery will include practices to prohibit the spread of invasive or exotic species and noxious weeds.

Under the No Action Alternative there would be no additional impacts on the wildlife and habitat in the area.

3.7 NOISE

Noise refers to impacts associated with generation of noise by construction or normal operations on the property.

Existing Conditions

The existing operations of the cemetery have no sources of significant noise generation. Periodic noise sources are the result of ground maintenance activities, including the use of lawnmowers and leaf-blowers, and gun salutes associated with many interments. The short bursts of noise from the salutes only occur during weekday business hours. Due to the fact that the cemetery is located in the bottom of the volcanic crater, the surrounding slopes effectively block this noise from reaching surrounding areas. However, this noise is experienced inside of the crater.

Consequences of the Alternatives

The proposed improvements will generate temporary construction related noise impacts. Columbaria construction within the crater will require equipment for building demolition, grading and trucks hauling supplies to and debris from the site. This noise will be audible within the crater. Construction of the new PIC/Administration building outside of the crater will require equipment for earth excavation, grading and trucks as well. There is a potential for the need of pile driving equipment but that has not been determined at this time. This noise will be audible outside the crater in the vicinity of the new building. These construction activities will be limited to weekday business hours.

Minimal long-term noise impacts from normal operations also will be realized. These include noise generated by periodic ground maintenance activities as well as gun salutes associated with many interments. These noises will be audible within the crater and similar to the noise currently experienced. Noise impacts to the surrounding area are not expected due to the fact that the interior crater slopes serve as an effective barrier. These activities will be limited to weekday business hours.

Under the No Action Alternative there would be no additional impacts resulting from noise in the area.

3.8 LAND USE

Land use represents the current and planned use of the property in a jurisdiction by the governing authorities.

Existing Conditions

Two zoning designations are assigned to the NMCP per the City and County of Honolulu Land Use Ordinance (LUO) (Figure 3-1). The P-1 Restricted Preservation District designation indicates land located within the State of Hawaii's Land Use Conservation District and is under the authority of the Department of Land and Natural Resources (DLNR) Office of Conservation and Coastal Lands. The P-2 General Preservation District designation indicates land located within the State of Hawaii's Land Use Urban District and is under the jurisdiction of the City and County of Honolulu LUO.

This parcel is currently within the limits of the City and County of Honolulu's Punchbowl Special District (City and County of Honolulu, 2000). As such, special design review is typically required for a designated core area surrounding Punchbowl in order to protect and enhance major viewsheds. The objectives of this district include the following:

- Preserve and enhance Punchbowl's form and character as a significant landmark.
- Preserve and enhance the park-like character of the immediate slopes of Punchbowl and its major streets.
- Preserve and enhance significant public views to and from Punchbowl.
- Provide landscaping and open space which will enhance views and the general character of Punchbowl.
- Preserve, enhance and restore to the extent possible, the serene and scenic qualities with the national cemetery.

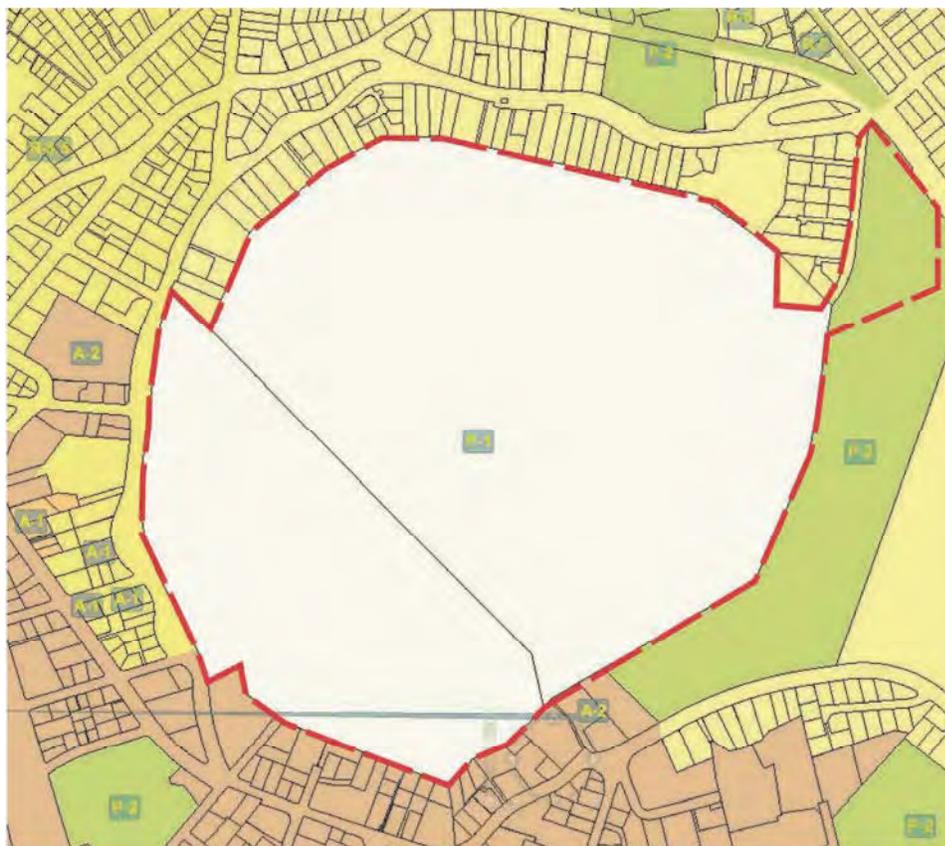
The site is located within a dense urban residential neighborhood context that is typical along most of Oahu's south shore between the shoreline and the Koolau Mountains. Residential homes and apartment buildings surround the majority of the crater. The combined campuses of Lincoln Elementary School and Robert Louis Stevenson Middle School are situated directly adjacent to the project site, below Pūowaina Drive on the eastern side of the crater. Two small neighborhood parks and the Makiki Cemetery are also located in the vicinity of the site.

Consequences of the Alternatives

All of the proposed improvements are contained within the limits of the existing NMCP. The NCA is fully aware of the special qualities of the Punchbowl and its associated viewshed and, as such, will strive to work within the intent of the Special District requirements.

The NCA will offer local officials an opportunity to informally review and comment on the design concept, for compatibility with local plans, zoning, and design guidelines. Key design milestones offer logical timeframes for these reviews and can be especially helpful to the development of the project. The NCA shall review all recommendations made by state and local government officials. Each recommendation will be carefully considered based on adequacy, cost, and nationally accepted practice. However, NCA has the final authority to accept or reject any recommendation from state and/or local government officials. (GSA, 2005).

Figure 3-7: Area Zoning



ZONING DISTRICTS

- A-1 Low Density Apartment
- A-2 Medium Density Apartment
- P-1 Restricted Preservation
- P-2 General Preservation

The NMCP property is not currently on the tax rolls. The proposed improvements will have no affect on tax revenues or associated land values.

Under the No Action Alternative there would be no additional impacts on the land use of the area.

3.9 FLOODPLAINS, WETLANDS AND COASTAL ZONE MANAGEMENT

Floodplains are those areas that have been delineated by the Federal Emergency Management Agency (FEMA) and identified on the Flood Insurance Rate Maps (FIRM). Wetlands, as defined by the U.S. Army Corps of Engineers (USACE), are “*areas inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soils conditions*”. Coastal zone

management is the process for management of coastal areas with regards to all aspects of the coastal zone including geographical and political boundaries.

Existing Conditions

The rim of the NMCP is located approximately 600-feet above sea level and the crater floor is approximately 430-feet above sea level. The cemetery is located 1¼ miles inland from the ocean. Field investigations noted there are no floodplains, wetlands or coastal zones within the limits of the project area.

Consequences of the Alternatives

The proposed improvements, as well as the No Action Alternative, will have no impact on existing floodplains, wetlands or coastal zone management areas.

3.10 SOCIOECONOMICS

This section refers to the effect that the proposed action would have on the social and economic conditions in the surrounding area.

Existing Conditions

The NMCP is predominately surrounded by residential land use of varying densities. At the lower elevations of the slopes there is also a mix of small scale retail establishments, schools, parks, community centers and private cemeteries.

Oahu has implemented a Neighborhood Board System created to assure and increase community participation in the decision-making process of government (City and County of Honolulu, 2008). The system applies the concept of participatory democracy, involving communities in the decisions affecting them. Although the Neighborhood Boards are advisory in nature, their statutory existence provides them the opportunity to participate in decisions that affect their community.

The NMCP sits within the Nu'uuanu/Punchbowl Neighborhood Board No. 12. Adjacent to the east is Makiki/Lower Punchbowl/Tantalus Neighborhood Board No. 10.

Consequences of the Alternatives

The proposed improvements are not anticipated to have an effect on surrounding social conditions or economic activity. Visitors to the cemetery are primarily destination oriented and do not interact with or influence the local economy surrounding the project site. Short term jobs may be created during the construction phase; although there is no guarantee these positions will be filled by individuals from the surrounding neighborhoods.

The general maintenance and operations of the cemetery will be conducted by existing cemetery staff. It is not anticipated that the cemetery will require additional employees as a result of the proposed improvements.

Representatives of both Nu'uuanu/Punchbowl Neighborhood Board No. 12 and Makiki/Lower Punchbowl/Tantalus Neighborhood Board No. 10 were contacted during the preparation of the Cultural Impact Assessment. Coordination with these neighborhood boards will continue at appropriate times during the plan development process.

Under the No Action Alternative there would be no additional impacts on the socioeconomics of the area.

3.11 COMMUNITY SERVICES

Community Services refer to services provided by surrounding communities such as police, fire and ambulance services.

Existing Conditions

The NMCP is located in Honolulu City and County which collaborate on providing community services. The Honolulu Police Department provides service to the cemetery out of District 5, the Kalihi District, located in downtown Honolulu. The Honolulu Fire Department is divided into five battalions containing 44 fire stations across the island. First call to the cemetery is provided by the South Street Station in downtown Honolulu. Emergency medical service is provided by the Emergency Medical Service Division which has 19 ambulance units organized into two districts. The cemetery is served by the Makiki Unit located on Young Street.

Consequences of the Alternatives

Under the proposed action police, fire and medical services would not be affected since the number of employees and visitors associated with continuing operation of the cemetery is not expected to change substantially. Additionally, the number of these employees and visitors would be insignificant compared to the overall existing population of Honolulu.

Under the No Action Alternative there would be no additional impacts on the community services provided to the area.

3.12 SOLID AND HAZARDOUS MATERIALS

The solid and hazardous waste category refers to changes in the proper management of solid waste and hazardous waste in compliance with local, state, and federal regulations.

Existing Conditions

Currently, all fuels and landscape chemicals and fertilizers are contained and used in accordance with state and federal regulations. A review of existing databases reveals that there was one leaking underground storage tank that has been cleaned up and two underground storage tanks that are permanently out of use in the NMCP. The cemetery itself is considered a Conditionally Exempt Small Quantity Generator under the Resource Conservation and Recovery Act (RCRA). There are no other documented conditions related to hazardous waste on the property.

Outside of the cemetery, there are 16 sites in the databases within the ½- to 1-mile radius of the cemetery that include a range of leaking underground storage tanks (LUSTs) that have been cleaned up,

underground storage tanks (USTs) either in use or permanently out of use or sites where the hazard is undetermined or managed with engineering controls. The crater floor of the NMCP is approximately 300-feet above these sites or separated topographically by valleys. As a result, none of these sites are considered to have an influence on the cemetery property.

Based on its date of construction, it is anticipated that the existing PIC/Administration building may contain asbestos.

A preliminary geotechnical investigation was completed in October 2010 as part of the initial design process. Discussions with cemetery maintenance personnel confirmed that the area of the proposed PIC/Administration building has been created gradually over many years by the disposal and leveling of rock, soil, vegetation and other debris from the cemetery. Five borings were drilled in this area ranging in depth from approximately 20- to 40-feet. Old fill materials were found in the borings including silty to clayey soils, broken rock, boulders, chunks of concrete, coral sand and gravel.

Solid waste is handled by the City of Honolulu, Department of Environmental Services. Much of the landscape waste is currently disposed of on-site.

Consequences of the Alternatives

An assessment of the existing PIC/Administration building will be completed in accordance with ASTM Standard E1527-05 to determine if it contains asbestos or any other environmental concerns. If such materials are identified, the VA will develop a remediation plan in accordance with regulatory requirements for removal and disposal associated with demolition.

Construction activities will necessitate an increased use of diesel fuels in the area of the proposed improvements. These fuels will be transported and stored in accordance with state and federal guidelines. The proposed improvements will have no effect on the cemetery's use of hazardous waste relating to operations. As is currently the case, all fuels and landscape chemicals and fertilizers will be contained and used in accordance with state and federal regulations. There is no expectation to increase the volume or use of these types of materials during the operation of the cemetery.

With respect to solid waste, the proposed improvements will generate construction waste from demolition of buildings and waste associated with construction of the columbaria and PIC/Administration building. There is an increased emphasis on all government projects to decrease the amount of construction waste generated by their projects. As part of construction, all solid waste will be transported and disposed of in accordance with state and local regulations. The proposed improvements will provide a greater number of interments which may result in an increase in solid waste from flowers and disposable mementos. This volume of old waste is expected to be minor. Compostable materials will be disposed of on-site if possible.

Under the No Action Alternative there would be no additional impacts on the solid and hazardous waste associated with the area.

3.13 TRANSPORTATION AND PARKING

The transportation category refers to changes in the vehicular traffic related to the operations on the property and how it might impact surround traffic patterns.

Existing Conditions

Currently, access to the NMCP is through the city’s surface streets. The primary route from origins in the City of Honolulu is by Auwaiolimu Street to Hookui Street to the entry off of Pūowaina Drive (Hara, 2010). Although other routes exist, this is the predominate route used by cars, busses and service vehicles.

Existing Average Daily Traffic (ADT) and peak hour volumes in the surrounding project area, as noted by HDOT historical traffic counts, are as shown in Table 3-1 and 3-2 (KI Concepts, 2012). Directional peak hour volumes are shown for traffic heading eastbound (EB) and westbound (WB) along the roadway segments.

Table 3-1: HDOT ADT

Road Segment	Year	ADT
Pūowaina Drive/Tantalus Drive	2008	5,890
‘Auwaiolimu Street	2009	9,620

Table 3-2: HDOT Peak Hour Traffic

Road Segment	Year	AM Peak Hour	Volume		PM Peak Hour	Volume	
			EB	WB		EB	WB
Pūowaina Drive/Tantalus Drive	2008	7:00-8:00	144	211	4:15-5:15	264	187
‘Auwaiolimu Street	2009	6:30-7:30	826	369	4:45-5:45	648	371

TheBus, a transit program of the City and County of Honolulu Transportation Services, runs Route 15 every 30 to 60 minutes past the entrance to NMCP along Pūowaina Drive/Tantalus Drive on its route through Pacific Heights, Tantalus Drive, Makiki Heights and into town along Ward Avenue and Kapiolani Boulevard. A bus stop exists near the intersection of Pūowaina Drive/Tantalus Drive and NMCP entrance road with no pullout lane provided thus requiring stops to be made along the travel way.

Currently the American Legion runs two bus tours per day to NMCP with passengers allowed to disembark and tour the site. An additional 40 tour buses per day drive into NMCP but are not allowed to disembark passengers. Approximately six to seven committal services occur daily with respective vehicles (upwards of 20) accompanying (SSFM, 2012).

Traffic congestion issues have been identified along Pūowaina Drive (south of Tantalus Drive intersection) and Outer Drive (columbarium area). The congestion along Pūowaina Drive appears to be attributed to the volume of traffic coming to/from NMCP, proximity of the intersection, and street parking. Residents often experience difficulty accessing their driveways in this area. Nevertheless, the Puowaina Drive/ Tantalus Drive intersection with the Puowaina Drive entrance road currently operates at Level of Service B (SSFM, 2012).

The existing PIC/Administration building provides parking for eight staff and eight visitors. There is parallel parking throughout the cemetery on the internal drives. The maintenance facility has ten covered parking spots.

Consequences of the Alternatives

The proposed improvements do not provide any new vehicular capacity to the road system or within the NMCP are not anticipated to change the existing vehicle trips generated in the future. Although the capacity for burials will be increased, a consequent increase in visitation will be minor due to the intermittent nature of these visits. Inclusion of the new PIC/Administration building driveway access points off of the Puowaina Drive entrance road results in a Level of Service A at the Puowaina Drive/Tantalus Drive and Puowaina Drive entrance road intersection (SSFM, 2012).

During construction, the potential exists for disruption of traffic patterns on the Pūowaina Drive entrance road and within the cemetery. These disruptions may include temporary lane closures with traffic control. Access to the cemetery and the adjacent residencies will be maintained at all times. It is anticipated that no lane closures will occur on weekends. Parking for visitors and staff at the new PIC/Administration building is expected to be equal to that currently provided.

Under the No Action Alternative there would be no additional impacts on the transportation and parking in the area.

3.14 UTILITIES

The utilities category refers to changes in the use of public utilities at the property.

Existing Conditions

The NMCP is served by the following utility providers:

Power:	Electric service is provided by the Hawaiian Electric Company, Inc
Water:	Water service is provided by the Honolulu Board of Water Supply via an 8-inch diameter water service connection along Auwaiolimu Street.
Sewers:	An existing sewer collection system consists of a 6-inch gravity collection line along Prospect Street maintained by the City of Honolulu, Department of Environmental Services.

Consequences of the Alternatives

The cemetery is expected to continue using existing utility providers and minimal changes in utility use would occur as a result of the proposed improvements. Construction, as proposed, will require additional new infrastructure and upgrades to existing infrastructure as appropriate. The new PIC/Administration building will incorporate strategies for energy and water conservation. Utility use resulting from cemetery operations will essentially be the same as current use.

Under the No Action Alternative there would be no additional impacts on the utilities of the area.

3.15 ENVIRONMENTAL JUSTICE

Executive Order 12898 requires that any federally funded project address environmental justice in minority and low-income populations and to evaluate whether the project would have a disproportional adverse effect on minority or low-income populations. This section includes the results of this documentation.

Existing Conditions

According to the 2000 census data (the most recent complete dataset available), Honolulu County had a median household income of \$67,019 compared to the national average of \$61,173 and a state average of \$63,741. Additional 2000 data indicates 9.7 percent of the people in Honolulu County are below the poverty level compared to a national average of 13.2 percent and a state average of 10.4 percent. According to the census tract data from 2000, the percentage of persons living in Census Tract 43, which contains the project site, consists of 16.6 percent white, 0.8 percent black or African American, 0.2 percent American Indian and Alaska Native, 49.7 percent Asian, 9.6 percent Native Hawaiian and other Pacific Islander, 1.6 some other race and 21.4 percent two or more races (numbers may not add up to 100 percent because some individuals report more than one race). The median household income in Census Tract 43 is \$48,194 and the percent of people below the poverty level is 13 percent (USCB, 2000).

The Oahu Metropolitan Planning Organization has completed an analysis of environmental justice in an effort to evaluate their regional transportation plan (OMPO, 2004). The objective of this analysis was to identify, in a systematic way, the areas on Oahu that have a disproportionate concentration of minority and/or low-income populations. Without going into all the details of the report, it is important to note that Census Tract 43 was not identified by OMPO as a location of environmental justice populations.

Consequences of the Alternatives

The proposed improvements are located entirely within the boundaries of the NMCP. Based on the nature of these improvements, they will have minimal adverse affect on the local population and will not disproportionately affect minority and/or low-income populations.

While there are no any environmental justice issues associated with the proposed improvements at this time, a continuing effort would be made to identify disproportionately high and adverse impacts to minority and low-income populations during subsequent phases of this project. If such impacts are identified, every effort would be made to involve impacted groups in the project development process and to avoid or mitigate these impacts.

Under the No Action Alternative there would be no additional impacts on minority and/or low-income populations in the area.

3.16 CUMULATIVE IMPACTS

This section includes a brief discussion of cumulative impacts that may occur as a result of the proposed project. Cumulative impacts are those impacts that result from the incremental impact of an action added to other past, present, and reasonably foreseeable actions in the future. NEPA requires that federal projects undergoing NEPA analysis consider cumulative impacts. The project site under consideration in this EA is approximately 10 acres within the 116 acre NMCP. The environmental criteria affected by the

proposed action that has the greatest risk of cumulative impacts is aesthetics with respect to both views within the cemetery and views of the Punchbowl Crater from surrounding neighborhoods to the south and east.

A columbarium was recently constructed on the lower northern interior slope of the crater. The improvements proposed as part of this project will construct two columbaria on other areas within the crater. It is essential that these new structures are designed and implemented with sensitivity to the aesthetics of the crater interior. The two sites selected for columbaria in this project represent the remaining suitable sites for such construction. It is unlikely that any further development will occur in the crater due to limits of the existing cemetery, existing memorials and topographic constraints.

The construction of the PIC/Administration building on the eastern outer slope of the crater represents a new structure in this location. Another proposed project in this area is the Native Hawaiian Education & Culture Community Center which is planned on 14 acres at the base of the eastern outer slope (DHHL, 2009). These facilities are not designed yet, but are planned to include a Hawaiian language school, classrooms, offices, a playground and open space, a full kitchen, gardens and aquaculture area and parking. While this project, combined with the PIC/Administration building represents new construction on the eastern slope, the Native Hawaiian Education & Culture Center is much lower in elevation and will not be in the greater viewshed of the adjacent neighborhoods. It will be essential that the PIC/Administration building be designed with a level of sensitivity that is equal to the importance of the views to Punchbowl Crater by residents and native Hawaiians.

3.17 POTENTIAL FOR GENERATING SUBSTANTIAL CONTROVERSY

The NMCP is recognized as an important landmark due to its use as a national cemetery as well as a destination for tourists. Historically, the Punchbowl Crater has been an important ceremonial site for native Hawaiians.

The ability to accommodate additional capacity with little effect to the setting will be a benefit to local veterans. A thorough Cultural Impact Assessment was completed to determine the effect of the proposed improvements on native communities. The result of that effort was general support for the improvements and included a recommendation to install memorial plaques acknowledging the historical use of the site. Significant public controversy is not anticipated based on the level of support the proposed project has received.

4.0 PUBLIC INVOLVEMENT

As part of the Cultural Impact Assessment, several attempts were made by mail, email, and telephone to contact individuals, organizations and agencies relevant to the NMCP (Cultural Surveys Hawai'i, 2011). In addition, information meetings were held with Native Hawaiian Organizations and neighborhood community groups to seek input from area residents. These groups included the Papokolea Community Development Corporation, Office of Hawaiian Affairs, Department of Hawaiian Home Lands and the Nu'uuanu/Punchbowl Neighborhood Board. Walking tours of the NMCP were also conducted with area residents and group representatives.

The NCA has coordinated two public meetings to announce the project to a wide range of stakeholders. A public meeting was held on November 3, 2011 at the Stevenson Middle School to provide a project overview, studies completed to date and proposed improvements. These meetings have presented the purpose and need for the project along with initial concept plans for the proposed construction. Twenty-seven people signed in for that meeting. A second public meeting was held on January 19, 2012 also at the Stevenson Middle School. While the agenda was essentially the same for the second meeting, an update on the work that had taken place over prior two months was provided. Summaries of both of these meetings can be found in Appendix E.

A final public meeting is proposed for October 25, 2012, also at the Stevenson Middle School, to provide the results of the Draft Environmental Assessment.

5.0 MITIGATION

The following provides a summary of the mitigation proposed for the activities associated with this project.

Aesthetics

Prior to construction and operation of the cemetery, design all new structures to be compatible with the surrounding landscape context. This shall consider use of native materials, colors and screening. Engineering and architectural design shall ensure that all new structures are set into the grade in such a manner that maintains quality and character of the existing cemetery.

Air Quality

During construction, require that all internal combustion engines are working properly and implement a dust management plan. No mitigation is required for operation of the cemetery.

Cultural Resources

No mitigation is required for archaeological resources. It is anticipated the project will proceed under a MOA designed to mitigate the project's effects on the existing PIC/Administration building. Regarding measures to mitigate potential adverse effects on cultural, historic, and natural resources, practices and beliefs, four measures are proposed:

1. Educate personnel involved in project development about the possibility of inadvertent cultural finds, including human remains. Should cultural and/or burial sites be identified, work should immediately cease and appropriate agencies be notified.
2. In the event of discoveries of ancestral remains, notify recognized cultural and lineal descendants.
3. Grant access to recognized cultural and lineal descendants to conduct traditional and customary burial practices if as-yet undiscovered ancestral remains are discovered.
4. Memorialize three traditional cultural sites in the project area with plaques.

Geology and Soils

During construction, obtain and comply with NPDES requirements; schedule a regular check of all soil erosion and sedimentation controls and immediately repair any controls that are not functioning properly. No mitigation is required for operation of the cemetery.

Hydrology and Water Quality

During construction, schedule a regular check of all soil erosion and sedimentation controls and immediately repair any controls that are not functioning properly. No mitigation is required for operation of the cemetery.

Wildlife and Habitat

Prior to construction, develop and implement a tree protection plan for the cultivated landscape. During operations, staff should periodically review the ground for the presence of invasive species or noxious weeds. If observed, implement a control plan to prevent the spread of these species.

Noise

During construction, develop a schedule for construction activities that identifies hours of operation. No mitigation is required for operation of the cemetery.

Land Use

No mitigation required for construction or operation of the cemetery.

Floodplains, Wetlands and Coastal Zone Management

No mitigation required for construction or operation of the cemetery.

Socioeconomics

No mitigation required for construction or operation of the cemetery.

Community Services

No mitigation required for construction or operation of the cemetery.

Solid and Hazardous Materials

Prior to construction, develop and implement a plan for fuel transportation and storage and for construction waste management. During operations, comply with federal and state requirements for storage, handling and disposal of hazardous materials.

Transportation and Parking

No mitigation required for operation of the cemetery. Prior to construction, develop a maintenance of traffic plan to ensure access to the cemetery and adjacent residences.

Utilities

No mitigation required for construction or operation of the cemetery.

6.0 CONCLUSIONS

Based on the information in this EA and coordination with local, state, and federal regulatory agencies and the public, it is anticipated that this project will have no significant impact on the natural or human environment. A summary of the effects is provided in Table 6-1.

If review and commentary by the public and interested agencies support this determination, this EA will be forwarded to the VA with a request that a Finding of No Significant Impact (FONSI) be prepared and location/design approval be granted.

Table 6-1: Summary of Effects

Attributes	None	Minimal	Moderate	Severe
Aesthetics			x	
Air Quality	x			
Cultural Resources	-	x		
Geology and Soils	x			
Hydrology and Water Quality	x			
Wildlife and Habitat	x			
Noise	x			
Land Use	x			
Floodplains, Wetlands, Coastal Zones	x			
Socioeconomics	x			
Community Services	x			
Solid and Hazardous Materials	x			
Transportation and Parking	x			
Utilities	x			
Environmental Justice	x			
Cumulative Impacts		x		
Potential for Generating Substantial Controversy	x			

Severe: Complete destruction, disruption, violation of standards, incompatibility, disturbance, or surpassing capability of the attribute under consideration.

Moderate: Considerable destruction, disruption, violation of standards, incompatibility, disturbance, or surpassing capability of the attribute under consideration. However, the effect can be minimized through further study and mitigation.

Minimal: Temporary or minor destruction, disruption, violation of standards, incompatibility, disturbance, or surpassing capability of the attribute under consideration. However, the effect can be mitigated through standard design, construction, or operational procedures.

7.0 LIST OF PREPARERS

Henry Byma (B.S. Horticulture, B.S. Landscape Architecture, M. Landscape Architecture) served as Project Coordinator and provided direction and supervision of field activities and technical review of the report. Mr. Byma has over 20 years of experience in land planning and design and has worked on numerous Veterans Administration cemeteries.

Neal Billetdeaux (B.S. Natural Resources, M. Landscape Architecture) served as Project Principal and primary author for all sections of the document. Mr. Billetdeaux is a Senior Landscape Architect with over 15 years of NEPA related work for numerous federal agencies.

8.0 REFERENCES

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9.0 LIST OF ACRONYMS AND ABBREVIATIONS

APE	Area of Potential Effect
AIS	Archaeological Inventory Survey
BMP	Best Management Practices
CEQ	Council on Environmental Quality
CFR	Code of Federal Regulations
CIA	Cultural Impact Assessment
DLNR	Department of Natural Resources Office
EA	Environmental Assessment
EO	Executive Order
EPA	Environmental Protection Agency
FEMA	Federal Emergency Management Agency
FIRM	Flood Insurance Rate Map
FONSI	Finding of No Significant Impact
GSA	U.S. General Services Administration
HABS	Historic American Buildings Survey
LUO	Land Use Ordinance
MOA	Memorandum of Agreement
MOU	Memorandum of Understanding
NAAQS	National Ambient Air Quality Standards
NCA	National Cemetery Administration
NEPA	National Environmental Policy Act
NHPA	National Historic Preservation Act
NRCS	Natural Resources Conservation Service
NRHP	National Register of Historic Places
RCRA	Resource Conservation and Recovery Act
SHPD	State Historic Preservation Department

USACE	U.S. Army Corps of Engineers
USDA	U.S. Department of Agriculture
USFWS	U.S. Fish and Wildlife Service
VA	U.S. Department of Veterans Affairs

APPENDIX A
Cultural Resource Correspondence



DEPARTMENT OF VETERANS AFFAIRS
Office of Construction & Facilities Management
Washington DC 20420

August 29, 2012

TO: Section 106 Consulting Parties

REFERENCE: National Memorial Cemetery of the Pacific
Columbarium Expansion & Cemetery Improvements Project
Honolulu, HI

Dear Consulting Parties,

Thank you again for your participation in the Section 106 process for the National Memorial Cemetery of the Pacific (Punchbowl) project. As a follow-up to our meeting of May 10, 2012, attached are two draft documents with attachments for your review and comment, 1) draft meeting minutes and 2) Draft Memorandum of Agreement (MOA). Obviously, the VA is running a bit behind our original schedule of June 2012 for the submittal of these drafts to the consulting parties for review and comment, and we apologize for the delay. The draft documents are being submitted to you as pdf files with related attachment(s) merged into the respective file.

The draft meeting notes includes a copy of the presentation materials for your reference and files. The meeting notes are a compilation of notes from various VA representatives and hopefully captured all the salient points of the meeting. Please review and let us know if we missed or incorrectly captured a discussion point. The draft MOA has been formatted to include line numbers to facilitate referencing comments and/or suggested edits.

Please provide your comments within 30-days from receipt of the draft documents. You may submit your comments either as annotations to the pdfs, letter form, or via email. If you do not have any comments, we would appreciate you so notifying us formally either by mail or email. VA's goal is to compile all comments for redistribution to the consulting parties by the end of September 2012, and a follow-up consulting party meeting the week of October 15, 2012 to discuss comments and reach consensus. It is VA's intent to submit the draft MOA to the Department's legal counsel in late-October, so your timely response is important and greatly appreciated.

Page 2

Dear Consulting Party

Please submit your comments/responses to Bill.Peach@va.gov or via mail at the address below:

*Bill Peach, PM/RLA
Department of Veterans Affairs
Office of Construction and Facilities Management
425 I Street NW (03C1A)
Washington, DC 20001*

In advance, thank you for your assistance and interest in our project.

Sincerely,



William Peach,
Project Manager

Enclosures: Draft Meeting Notes
Draft MOA



DEPARTMENT OF VETERANS AFFAIRS
Office of Construction & Facilities Management
Washington DC 20420

August 29, 2012

Ms. Angie Westfall
Architectural Branch Chief
State Historic Preservation Division
Kakuhihewa Building
601 Kamokila Blvd., Suite 555
Kapolei, Hawaii 96707

Dear Ms. Westfall:

Thank you again for your participation in the Section 106 process for the National Memorial Cemetery of the Pacific (Punchbowl) Columbarium Expansion & Cemetery Improvements Project. As a follow-up to our meeting of May 10, 2012, attached are two draft documents with attachments for your review and comment, 1) draft meeting minutes and 2) Draft Memorandum of Agreement (MOA). Obviously, the VA is running a bit behind our original schedule of June 2012 for the submittal of these drafts to the consulting parties for review and comment, and we apologize for the delay. The draft documents are being submitted to you via email as pdf files with related attachment(s) merged into the respective file. A hardcopy will follow in the mail.

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Page 2

Dear Ms. Westfall

Please submit your comments/responses to bill.peach@va.gov or via mail at the address below:

*Bill Peach, PM/RLA
Department of Veterans Affairs
Office of Construction and Facilities Management
425 I Street NW (03C1A)
Washington, DC 20001*

In advance, thank you for your assistance and interest in our project.

Sincerely,

A handwritten signature in blue ink, appearing to read 'W. Peach', is centered below the text 'Sincerely,'.

William Peach,
Project Manager

cc: Brian Lusher, ACHP
Kathleen Schamel, VA FHPO
Doug Pulak, VA FHPO
Claudia Nissley, Nissley Environmental Consultants, Inc.

Enclosures: Draft Meeting Notes
Draft MOA



DEPARTMENT OF VETERANS AFFAIRS
Office of Construction & Facilities Management
Washington DC 20420

August 29, 2012

Mr. Brian Lusher
Advisory Council on Historic Preservation
1100 Pennsylvania Ave, NW, Suite 803
Old Post Office Building,
Washington D. C. 20004

Dear Mr. Lusher:

Thank you again for your participation in the Section 106 process for the National Memorial Cemetery of the Pacific (Punchbowl) Columbarium Expansion & Cemetery Improvements Project. As a follow-up to our meeting of May 10, 2012, attached are two draft documents with attachments for your review and comment, 1) draft meeting minutes and 2) Draft Memorandum of Agreement (MOA). Obviously, the VA is running a bit behind our original schedule of June 2012 for the submittal of these drafts to the consulting parties for review and comment, and we apologize for the delay. The draft documents are being submitted to you via email as pdf files with related attachment(s) merged into the respective file. A hardcopy will follow in the mail.

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*Bill Peach, PM/RLA
Department of Veterans Affairs
Office of Construction and Facilities Management
425 I Street NW (03C1A)
Washington, DC 20001*

In advance, thank you for your assistance and interest in our project.

Sincerely,



William Peach,
Project Manager

cc: Angie Westfall, SHPD
Kathleen Schamel, VA FHPO
Doug Pulak, VA FHPO
Claudia Nissley, Nissley Environmental Consultants, Inc.

Enclosures: Draft Meeting Notes
Draft MOA

**National Memorial Cemetery of the Pacific
Columbarium Expansion and Cemetery Improvements Project**

Location:
Cemetery Administration Building Conference Room

Time: 9:00am to Noon

In Attendance:

Angie Westfall, HI SHPD
Mike Gushard, HI SHPD
Katie Kissling, Historic Hawaii
Bob Loy, The Outdoor Circle
Harold Johnston, Papakolea Community Development Corporation
Richard Soo, Papakolea Community Development Corporation
Dirk Soma, Office of Hawaiian Affairs
Tammy Luke, USACE
Claudia Nissley, Sec 106 Consultant to VA
Gene Castagnetti, NMCP Cemetery Director
Joel Kurokawa, KI Concepts, Project A/E Firm
Bill Peach, VA Project Manager

Teleconferencing:

Brian Lusher, Advisory Council on Historic Preservation
Elizabeth Merritt, National Trust for Historic Preservation
Kathleen Schamel, VA Historic Preservation Officer
Doug Pulak, VA Historic Preservation Officer
Cliff Schem, MSN V Engineer
Glen Madderom, Chief, NCA Cemetery Development and Improvement Service

Meeting Notes:

1. Bill presents the columbarium project and background. Refer to PowerPoint presentation.
2. In consultation with SHPD, VA has already made several modifications to the original columbarium designs (see Slide 20) including not using marble but now granite to lessen the visual impact, adding a lava stone veneer, expanding a buffer around the exterior and the lowering of the two interior niches to create a courtyard effect.
3. Gene-About 50-53 first interments monthly at Punchbowl
 - a. 1976 Nat'l Register Nomination Form established Site as historic property
 - b. "Hill of Sacrifice"

4. APE - Area of Potential Effect has been expanded to encompass the entire crater and the area outside the crater for the new PIC/Admin Building
5. Next steps:
 - a. draft MOA distributed for comment by 6/2/12
 - b. Next consulting party mtg 6/22/12 to review draft MOA and updated drawings.

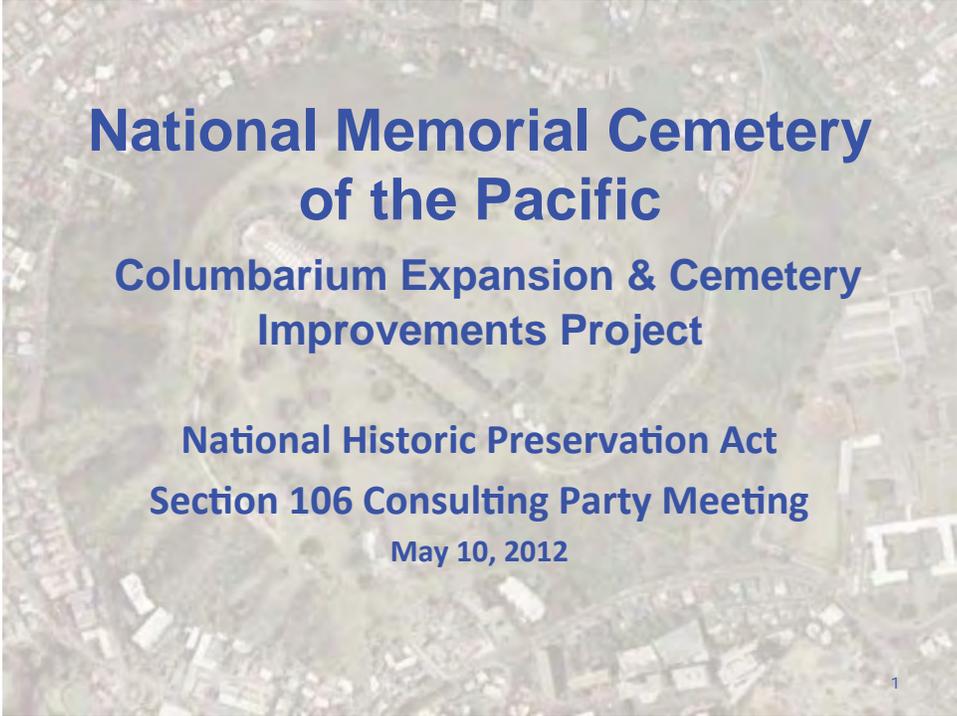
Comments:

1. Bob - concern about visual impact of PIC/Admin Building from surrounding areas.
2. Bill - EA consultant will be preparing a visual assessment. VA, as a federal agency, is exempt from the City/County of Honolulu "Punchbowl Special District" ordinance. However, the VA understands the concerns and has agreed to prepare a visual assessment as requested by the City. The EA will address visual impacts from the surrounding community - if there is a "ridge-line" view issue. Discussions at the meeting indicated all proposed changes within the Punchbowl area will not be seen from surrounding neighborhoods - only the new admin building at the bottom of the hill and outside the Punchbowl Crater.
3. Angie noted it is important to preserve the crater rim.
4. Dirk Soma - concern about trees causing slope instability and potentially being a problem down slope for the Papakolea Community Development Corp (PCDC) future Cultural Interpretive Center. PCDC is also discussing possibility of housing the ABMC Interpretive Center here. With this potential PCDC project downhill of the VA PIC/Admin Facility, there may be less of a visual impact to the natural slope of Punchbowl because there would be contiguous development from Stevenson Middle School to the PIC/Admin and up above to the existing Residential subdivision.
5. Bob - visual impact mitigation of the VA project must stand on its own and the PCDC plans below must also go through the same visual impact mitigation process.
6. Dirk - Historically Hawaiians did not have a say in the buildup of Honolulu/Waikiki and buildings blocking their view of the coastline.
7. Bob - development/building and preserving scenic views, nature are not necessarily mutually exclusive.
8. Joel - agrees and as VA consultant/designer our responsibility is to find common ground, to work in partnership mutual benefit.
9. Harold - in support of VA project. Vets, he included, should have the opportunity to be interred at Punchbowl

10. Angie - concern remains about the visual impact of the standard columbarium design at Punchbowl, especially around the inside of the crater rim slopes, which should remain natural, to preserve the natural bowl-shape form of the crater. Why not use exist maintenance site for columbarium site in lieu of current crater rim site 14/15 by the restroom. Building on the crater rim slope detracts from the iconic natural bowl form and is not respectful to vets.
11. Angie - is not opposed to 5 high stack but would prefer creating courtyards instead of regimented rows in court 13 at the existing PIC site.
12. Betsy - what is the nature of the adverse effect? Consider separating APE for interior of Crater and the new PIC Bldg site outside the crater. This has been done for other projects. Brian did not see a problem with this approach.
13. Betsy Merritt - noted that VA might want 2 APE's - one for the interior of the crater and one for the outside area and the new administration building. This was determined to be a good idea given the two vastly different view sheds and the MOA can note the 2 APE's.
14. Claudia - it is the demolition of the existing historic PIC Bldg.
15. Angie - MOA to include Papakolea group to have final review and comment for any cultural interpretive information/displays.
16. Claudia - The MOA will note the three following efforts: a) changes to the Columbarium design (mentioned above and in presentation). b) HABS - already completed on the administration building and approved by SHPD, c) the placement of the Hawaiian Interpretive Cultural Panels to be placed (most likely) by the new administration building - and that the text, design, final placement, etc will be finalized through consultation as stipulated in the MOA
17. Angie - why not do columbarium at exist PIC site 13 but hold off on the crater rim site 14/15 until VA determines the future of Maintenance Operations facility. SHPD preference is to construct columbarium at the Maintenance Op facility site before any consideration of building around the crater rim.
18. Bob - this may not be feasible because it would be considered segmenting. Also, in the future the funding for columbarium may not be there.
19. Bill - Agrees with Bob. This would not be in the VA interest. The project SOW is to provide 9,000 columbarium niches and the existing admin building complex has a capacity of about 7000 (need to verify) units at its current design.

20. Angie - prefers Mock orange hedge on site 14/15 in lieu of what the illustration shows.
21. General discussion about landscapes, hedges, possibility of placement of seating within the Columbarium courtyards, specific discussion on plant species and which ones might be better, shade trees - no conclusion but additional consultation will be noted in the MOA for the landscaping around the new proposed Columbarium areas.
22. Joel - the design team will take a look at this.
23. Angie - consider using different size urn to reduce the niche size to increase yield and achieve VA capacity since available space is such a premium at Punchbowl.
24. Size of the niches was discussed - VA is bound by policy for standard sizes. Bill mentioned regional variations - in the Pacific NW, the concept of "scatter gardens" for ashes was becoming more popular. VA cannot dictate the type or size of urns. Selection of urns is a private matter
25. Bob - This a VA policy issue. Gene/Claudia also refer to a law (Cory-Shay Law) that provides Vets equal opportunity for niches for themselves plus spouse or kin.
26. Angie - but the point is that if Punchbowl is so desirable to Vets as their final resting place and the objective of the VA is to accommodate this demand then shouldn't the VA consider reducing the size of the current standard niche to increase yield?
27. Bill - EA consultant is doing visual simulation for columbarium areas and for the PIC as part of the visual Impact assessment.
28. Joel- For visual simulation use mock orange-coordinate with EA consultant
29. Bill - Will be using real lava stone for walls.
30. Angie - this should be written into the MOA
31. Claudia - Since a number of participants have left the meeting is concluded. There is consensus that this was good meeting with participants being respectful of each other and their opinions, making it comfortable for each to share their point of view.

Meeting adjourned at 12:15PM



National Memorial Cemetery of the Pacific

Columbarium Expansion & Cemetery Improvements Project

**National Historic Preservation Act
Section 106 Consulting Party Meeting**

May 10, 2012

1

NMCP Columbarium Expansion & Cemetery Improvements Project

- **Presentation:**
 - **Purpose of Meeting**
 - **Purpose and Need**
 - **Authorized Program**
 - **1976 Master Plan Revisited**
 - **Section 106 Compliance**
 - **Review of Design Drawings**
 - **Resolve Adverse Effects**
 - **Next Steps**

2

NMCP Columbarium Expansion & Cemetery Improvements Project

- **Purpose of Meeting**
 - **Proposed Project**
 - Subject to Section 106 of NHPA
 - **Requires federal agency to:**
 - Consider the effects project will have on historic property
 - Provide ACHP an opportunity to comment
 - Consult with stakeholders
 - Complete 106 process prior to making final decision

3

NMCP Columbarium Expansion & Cemetery Improvements Project

- **4 Step Process**
 - **INITIATE**
 - Section 106 and determine if it applies to a given project;
 - **IDENTIFY**
 - historic properties in the project area;
 - **ASSESS**
 - the effect of the project on identified historic properties; and
 - ➔ **RESOLVE**
 - adverse effects by exploring alternatives to avoid, minimize, or mitigate the effects.

4

NMCP Columbarium Expansion & Cemetery Improvements Project

- **Purpose and Need for Project:**
 - Fulfill the need for continued access to burial benefits
 - Mandated by National Cemetery Act of 1973
 - Only National Cemetery available in Hawaii
 - 105,000 veterans in the State of Hawaii
 - Pearl Harbor and WWII Pacific Theater Veterans
 - Burial site depletion by 2015

5

NMCP Columbarium Expansion & Cemetery Improvements Project

- **Authorized Program:**
 - 9,000 columbarium niches in two locations
 - existing admin/visitor center
 - along west facing slope below outer drive
 - replace existing admin/visitor center with new outside the crater
 - renovate or replace existing maintenance complex
 - will make repairs, bring up to code, and minor reconfigure of office space
 - memorial walls
 - road repairs
 - site furnishings replacement
 - signage

6

NMCP Columbarium Expansion & Cemetery Improvements Project

- 1976 Master Plan revisited
 - Relocate Admin/Visitor Center outside the crater
 - Develop "burial structures" along
 - northeast rim
 - slopes flanking ABMC Monument
 - behind ABMC Monument
 - Tunnels

7

NMCP Columbarium Expansion & Cemetery Improvements Project

- 1976 National Register Nomination Form
 - Establishes the site as a historic property
 - Recognized purpose as national cemetery
 - "Hill of Sacrifice"
 - Culturally significant to Hawaii
 - ABMC is updating nomination form



8

NMCP Columbarium Expansion & Cemetery Improvements Project

- **Section 106 Compliance:**
 - Heads-up meeting – 4/29/2010
 - 106 Consultant retained, research/documentation initiated - 6/01/2010
 - Letter to SHPD/ACHP initiating consultation - 5/12/2011
 - Determination of Effect Letter – 5/2/2012
 - Draft reports submitted to SHPD
 - Cultural Inventory Assessment – 5/12/2011
 - Archaeological Inventory Survey – 5/12/2011
 - HABS Report – 11/4/2011

9

NMCP Columbarium Expansion & Cemetery Improvements Project

- **Section 106 Compliance:**
 - Informal consultation meetings with SHPD
 - July 22, 2011
 - Nov. 4, 2011
 - Dec. 9, 2011
 - March 8, 2012
 - March 29, 2012
 - April 20, 2012
 - Acceptance of HABS Report – 11/4/2011
 - Formal Submittal of Drawings
 - Schematic Design Package – 3/8/2012
 - Design Development 1 Package – 4/4/2012
 - Public Meetings: 11/3/2011 & 1/19/2012
 - Consulting Party Meeting – 5/10/2012

10

NMCP Columbarium Expansion & Cemetery Improvements Project

- **Concerns raised by SHPD:**
 - General columbarium design
 - Expansion of APE to encompass the entire crater
 - Minimal concerns with development outside the crater

11

NMCP Columbarium Expansion & Cemetery Improvements Project

- **Columbarium aesthetic concerns addressed during design:**
 - Glare resulting from use of white marble
 - Stacked look of niches
 - Court yard feel
 - Visual impact
 - Use of local materials
 - Site integration

12

NMCP Columbarium Expansion & Cemetery Improvements Project



13

New Administration Building and Public Information Center



14

New Administration Building and Public Information Center



15

New Administration Building and Public Information Center



16

New Administration Building and Public Information Center



Columbarium A (Court 13)

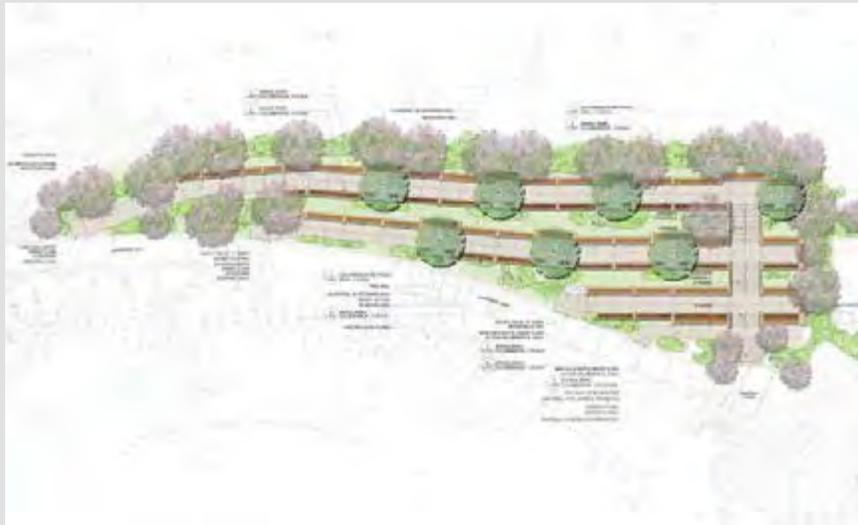


Columbarium A (Court 13)



19

Columbarium B (Court 15)



20

Columbarium B (Court 15)



21

Columbarium B (Court 14)



22

Memorial Wall



23

NMCP Columbarium Expansion & Cemetery Improvements Project

- **Resolving Adverse Effects**
 - Revised design of columbarium
 - Prepared Historic American Buildings Survey (HABS) for:
 - Existing Administration Building and Information Center
 - Existing Maintenance Complex
 - Hawaiian Culture Interpretive Panels

24

NMCP Columbarium Expansion & Cemetery Improvements Project

- **Next Steps**

- Draft MOA distributed for comment by 6/2/2012
- Consulting Party Meeting – 6/22/2012
 - Review of Draft MOA
 - Review updated drawings
- Finalize MOA – 7/16/2012
- Commence with construction documents – July 2012
- Start Construction – May 2013

25

1 MEMORANDUM OF AGREEMENT
2 BETWEEN THE UNITED STATES DEPARTMENT OF VETERANS AFFAIRS,
3 NATIONAL CEMETERY ADMINISTRATION,
4 ADVISORY COUNCIL ON HISTORIC PRESERVATION
5 AND
6 HAWAII STATE HISTORIC PRESERVATION OFFICER
7 FOR
8 COLUMBARIUM AND CEMETERY IMPROVEMENTS
9 AT THE
10 NATIONAL MEMORIAL CEMETERY OF THE PACIFIC
11

12 WHEREAS, the National Memorial Cemetery of the Pacific (Cemetery), which occupies
13 the volcanic crater on O'ahu known as the Punchbowl is projected to be full to capacity
14 by the year 2015; and

15 WHEREAS, the National Cemetery Administration (NCA) inters veterans and eligible
16 family members;

17 WHEREAS accordingly, the United States Congress has authorized expansion of and
18 other improvements to the Cemetery; and

19 WHEREAS the Department of Veterans Affairs, NCA proposes to respond to this
20 authorization by constructing approximately 9,000 columbarium niches (columbaria) at
21 selected locations within the Punchbowl crater, while replacing the existing
22 administrative/visitors center with a new facility outside the crater, renovating or
23 improving the existing maintenance complex, installing memorial walls, and making
24 repairs and improvements to roads, signage, and site furnishings (hereinafter
25 collectively referred to as "the undertaking") as illustrated in Attachment A titled
26 "Proposed Major Site Improvements"; and

27 WHEREAS the undertaking is subject to review under Section 106 of the National
28 Historic Preservation Act and its implementing regulations; and

29 WHEREAS the Cemetery is included in the National Register of Historic Places; and

30 WHEREAS pursuant to 36 CFR § 800.5(d), NCA, in consultation with the Hawaii State
31 Historic Preservation Officer (SHPO) has determined that the undertaking may diminish
32 the integrity of those qualities that make the Cemetery eligible for the National Register,
33 and hence will have an adverse effect on the Cemetery; and

34 WHEREAS NCA has consulted with the Hawaii SHPO and the Advisory Council on
35 Historic Preservation (ACHP) to resolve such adverse effects; and

36 WHEREAS NCA, the SHPO and the ACHP have consulted with the National Trust for
37 Historic Preservation, Historic Hawaii Foundation, the Outdoor Circle, Office of
38 Hawaiian Affairs, and the Papakolea Community Development Corporation and invited
39 them to review and comment on this memorandum of agreement (MOA); and

40 WHEREAS on its own initiative and in response to suggestions by the SHPO, ACHP
41 and other consulting parties, VA has completed architectural documentation of the
42 existing administration building, lodge, and maintenance complex ¹, an archaeological
43 survey of the Cemetery², and a cultural impact assessment of the Cemetery³, and have
44 made a variety of modifications to the design of the undertaking at the request of SHPO;
45 and

46 WHEREAS through consultation, two Areas of Potential Effect (APE's) have been
47 identified as delineated on Attachment B – APE 1 & 2.

48 NOW, THEREFORE, it is mutually agreed that NCA will implement the following
49 stipulations in order to resolve the adverse effects of the undertaking on the Cemetery.

50 STIPULATIONS

- 51 I. Administration/Public Information Building
- 52 A. NCA will construct the Administration/Public Information Building at the
53 location shown, and in accordance with the design concepts illustrated, in
54 Attachment C, titled "Location and Conceptual Design of
55 Administration/Information Building" dated March 19, 2012.
- 56 B. NCA will ensure to the extent possible that natural materials and native
57 plants are used in landscaping around the Administration/Public
58 Information Building;
- 59 C. NCA will afford the SHPO the opportunity to review plans and
60 specifications for the Administration/Public Information Building for periods
61 of thirty (30) days at the 50% and 95% design stages, will take any SHPO
62 comments into account, and will either comply with SHPO
63 recommendations or explain in writing why VA cannot comply with such
64 recommendations.

¹ Historic American Buildings Survey of 4 Buildings, National Memorial Cemetery of the Pacific, Pauoa and Makiki Ahupua'a, Honolulu (Kona) District, O'ahu Island, Hawaii;" Cultural Surveys Hawaii, August 2010

² "Archaeological Inventory Survey for the National Memorial Cemetery of the Pacific, Pauoa and Makiki Ahupua'a, Honolulu (Kona) District, O'ahu Island, Hawaii;" Cultural Surveys Hawaii, December 2010

³ "Cultural Impact Assessment for the National Memorial Cemetery of the Pacific, Pauoa and Makiki Ahupua'a, Honolulu District, O'ahu Island, Hawaii." Cultural Surveys Hawaii, December 2010

65 D. NCA will address the potential visual effects of the Administration/Public
66 Information Building in the course of review under the National
67 Environmental Policy Act, and if issues of a cultural character are raised,
68 will re-open consultation with the consulting parties to this MOA and with
69 the public to resolve them.

70 II. Columbaria

71 A. NCA will demolish the existing administration and lodge buildings and
72 construct the columbaria at the locations shown in Attachment A identified
73 as “Columbarium A – Court 13 and Columbarium B – Courts 14 and 15”.

74 B. NCA will design the columbaria to be consistent with the concept drawings
75 shown in Attachments D, titled “Conceptual Design of Columbaria A & B”.

76 C. NCA will ensure that natural or cultured volcanic stone is used in the
77 construction of columbaria walls, and that mock orange hedges or similar
78 type landscaping are employed in decorative planting.

79 D. NCA will afford the SHPO the opportunity to review plans and
80 specifications for the columbaria for periods of thirty (30) days at the 50%,
81 and 95% design stages, will take any SHPO comments into account, and
82 will either comply with SHPO recommendations or explain in writing why
83 VA cannot comply with such recommendations..

84 III. Memorial Wall

85 A. NCA will construct the Memorial Wall at the location shown in Attachment
86 A identified as “Memorial Wall”.

87 B. NCA will design the Memorial Wall to be consistent with the concept
88 drawing shown in Attachment E, titled “Conceptual Design of Memorial
89 Wall”. NCA will ensure that natural or cultured volcanic stone is used in
90 the construction of memorial wall,

91 C. NCA will afford the SHPO the opportunity to review plans and
92 specifications for the Memorial Wall for periods of thirty (30) days at the
93 50%, and 95% design stages, will take any SHPO comments into account,
94 and will either comply with SHPO recommendations or explain in writing
95 why VA cannot comply with such recommendations..

96 IV. Native Hawaiian Interpretive Panels

97 A. Recognizing the roles played by the Punchbowl crater in Native Hawaiian
98 tradition, NCA in consultation with the consulting parties and other entities
99 identified as contributors will design and install several interpretive panels
100 to be located in publicly accessible exterior locations near the
101 Administration/Public Information Center Building, interpreting how the
102 crater has figured and continues to figure in traditional Hawaiian beliefs
103 and ways of life.

104 D. NCA will ensure that interpretive panels are sized, scaled, and fabricated
105 with appropriately designed permanent materials for placement in a
106 publicly accessible location in vicinity of the Public Information Center.
107 NCA will afford the SHPO the opportunity to review plans and
108 specifications for these interpretive panels for periods of thirty (30) days at
109 the 50%, and 95% design stages, will take any SHPO comments into
110 account, and will either comply with SHPO recommendations or explain in
111 writing why such recommendations will not be complied with.

112 V. Archaeology, Native American Cultural Items

113 A. In consultation with the SHPO and the Office of Hawaiian Affairs
114 (OHA), NCA will ensure that all ground disturbing activities
115 associated with the undertaking, including but not limited to
116 grading, trenching, and landscape modification, are monitored
117 under the supervision of qualified personnel.

118 i. Should this monitoring reveal the presence of significant
119 archaeological resources, NCA will ensure that ground
120 disturbance is halted in the immediate vicinity of such
121 resources, and will consult further with the parties to this
122 MOA to establish a program to preserve and/or recover data
123 from such resources in accordance with pertinent
124 professional standards.

125 ii. Should the testing or subsequent data recovery reveal the
126 presence of Native American cultural items as defined in the
127 regulations implementing the Native American Graves
128 Protection and Repatriation Act (43 CFR 10), NCA will
129 comply with 43 CFR 10 in consultation with OHA and any
130 Native Hawaiian organizations identified as appropriate by
131 OHA.

132 VI. Resolving Objections

133 a. Should any party to this MOA object in writing to NCA regarding any
134 action carried out or proposed with respect to the undertaking or to
135 implementation of this MOA, NCA will consult with the objecting party to
136 resolve the objection.

137 b. If after initiating such consultation NCA determines that the objection
138 cannot be resolved through consultation, NCA will forward all
139 documentation relevant to the objection to the ACHP, including NCA's
140 proposed response to the objection.

- 141 c. Within 30 days after receipt of all pertinent documentation, the ACHP will
142 exercise one of the following options:
- 143 i. Advise NCA that the ACHP concurs in NCA's proposed response to
144 the objection, whereupon NCA will respond to the objection
145 accordingly; or
- 146 ii. Provide NCA with recommendations, which NCA will take into
147 account in reaching a final decision regarding its response to the
148 objection; or
- 149 iii. Notify NCA that the objection will be referred for comment pursuant
150 to 36 CFR 800.7(a)(4), and proceed to refer the objection and
151 comment. NCA will take the resulting comment into account in
152 accordance with 36 CFR 800.7(c)(4) and Section 110(l) of NHPA.
- 153 d. Should the ACHP not exercise one of the above options within 30 days
154 after receipt of all pertinent documentation, NCA may assume the ACHP's
155 concurrence in its proposed response to the objection.
- 156 e. NCA will take into account any ACHP recommendation or comment
157 provided in accordance with this stipulation with reference only to the
158 subject of the objection; NCA's responsibility to carry out all actions under
159 this MOA that are not the subjects of the objection will remain unchanged.
- 160 f. At any time during implementation of the measures stipulated in this MOA,
161 should an objection pertaining to this MOA or the effect of the
162 Undertakings on historic properties be raised by a member of the public,
163 NCA will notify the parties to this MOA and take the objection into account,
164 consulting with the objector and, should the objector so request, with any
165 of the parties to this MOA to resolve the objection.

166 VII. Annual Report and Review

- 167 a. On or before June 1 of each year until NCA and the SHPO agree in writing
168 that the terms of this MOA have been fulfilled, NCA will prepare and
169 provide an annual report to the parties to this MOA, detailing its progress
170 in completing the undertaking and carrying out the terms of this MOA.
- 171 b. NCA will ensure that its annual report is made available for public
172 inspection, that potentially interested members of the public are made
173 aware of its availability, and that interested members of the public are
174 invited to provide comments to the SHPO and ACHP as well as to NCA.

- 175 c. The signatories to this MOA will review the annual report and provide
176 comments to NCA. Non-signatory parties to this MOA may review and
177 comment on the annual report at their discretion.
- 178 d. At the request of any party to this MOA, NCA will ensure that a meeting or
179 meetings are held to facilitate review and comment, to resolve questions,
180 or to resolve adverse comments.
- 181 e. Based on this review, the signatories to this MOA will determine whether
182 this MOA will continue in force, be amended, or be terminated.

183 VIII. Amendment and Termination

- 184 a. If the terms of this MOA have not been implemented by September 30,
185 2023, this MOA will be considered null and void. In such event NCA will so
186 notify the parties to this MOA, and if it chooses to continue with the
187 Undertakings, will re-initiate review of the Undertakings in accordance with
188 36 CFR Part 800.
- 189 b. Any party to this MOA may propose to NCA that the MOA be amended,
190 whereupon NCA will consult with the other parties to this MOA to consider
191 such an amendment. 36 CFR 800.6(c)(1) will govern the execution of any
192 such amendment.
- 193 c. If NCA determines that it cannot implement the terms of this MOA, or if the
194 SHPO or ACHP determines that the MOA is not being properly
195 implemented, such party may propose to the other parties to this MOA
196 that it be terminated.
- 197 d. The party proposing to terminate this MOA will notify all parties to this
198 MOA, explaining in writing the reasons for termination and affording them
199 at least 30 days to consult and seek alternatives to termination. The
200 parties will then consult.
- 201 e. Should such consultation fail, NCA or other signatory party may terminate
202 the MOA by notifying all parties in writing.
- 203 f. Should this MOA be terminated, NCA will either:
- 204 i. Consult in accordance with 36 CFR 800.6 to develop a new MOA;
205 or
206 ii. Request the comments of the ACHP pursuant to 36 CFR 800.7.

207 Execution and submission of this MOA, and implementation of its terms evidence
208 that NCA has afforded the ACHP an opportunity to comment on the undertaking

209 and its effects on historic properties, and that NCA has taken into account the
210 effects of the undertakings on historic properties.
211
212

213 U.S. DEPARTMENT OF VETERANS AFFAIRS

214 By:_____ Date:_____

215 HAWAII STATE HISTORIC PRESERVATION OFFICER

216 By:_____ Date:_____

217

218 ADVISORY COUNCIL ON HISTORIC PRESERVATION

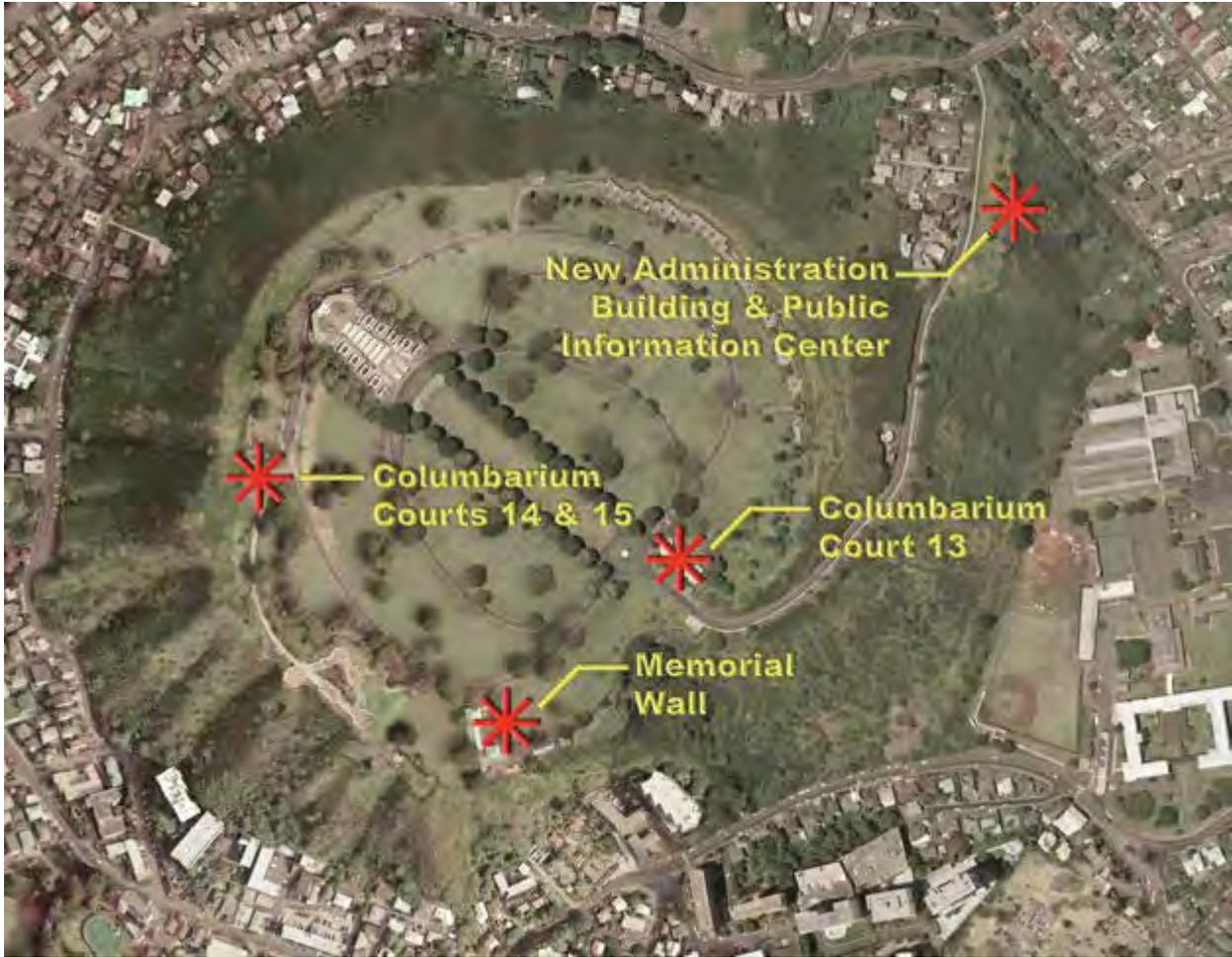
219

220 By:_____ Date:_____

Attachment A

Proposed Major Site Improvements

Memorandum of Agreement
Between The United States Department Of Veterans Affairs,
National Cemetery Administration,
Advisory Council on Historic Preservation
and
Hawaii State Historic Preservation Officer
for
Columbarium and Cemetery Improvements
at
National Memorial Cemetery of the Pacific



NMCP Columbarium Expansion & Cemetery Improvements Project
Proposed Major Project Improvements

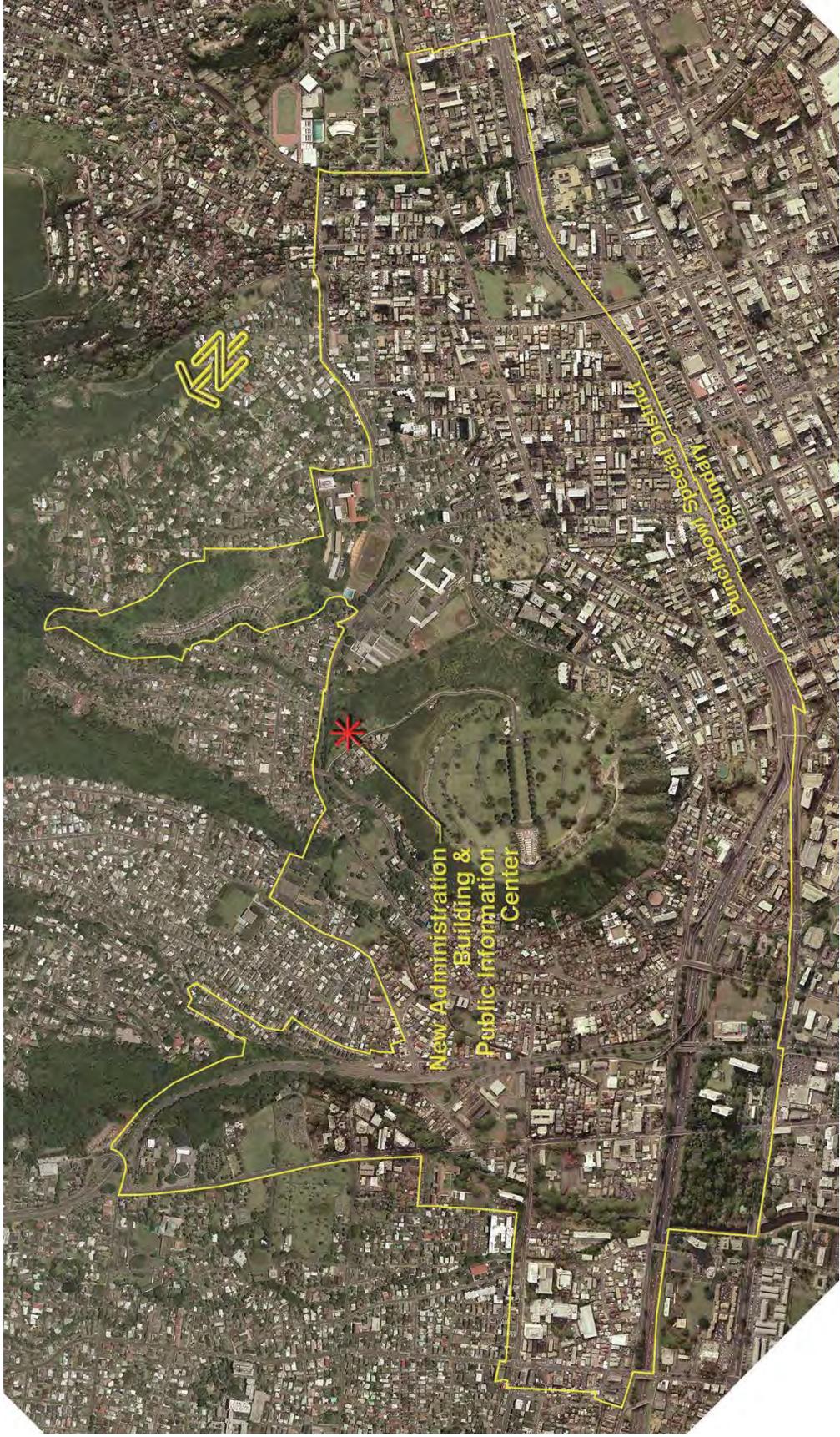
Attachment B

Areas of Potential Effects

Memorandum of Agreement
Between The United States Department Of Veterans Affairs,
National Cemetery Administration,
Advisory Council on Historic Preservation
and
Hawaii State Historic Preservation Officer
for
Columbarium and Cemetery Improvements
at
National Memorial Cemetery of the Pacific



Area of Potential Effect
for
Proposed Major Project Improvements inside the Crater



Punchbowl Special District



Area of Potential Effect
for
New Administration Building & Public Information Center

Attachment C
**Location and Conceptual Design of Administration/Information
Building**

Memorandum of Agreement
Between The United States Department Of Veterans Affairs,
National Cemetery Administration,
Advisory Council on Historic Preservation
and
Hawaii State Historic Preservation Officer
for
Columbarium and Cemetery Improvements
at
National Memorial Cemetery of the Pacific



**New Administration Building & Public Information Center
Site Plan**



**New Administration Building & Public Information Center
West (Street) Elevation**



**New Administration Building & Public Information Center
South (Hillside) Elevation**



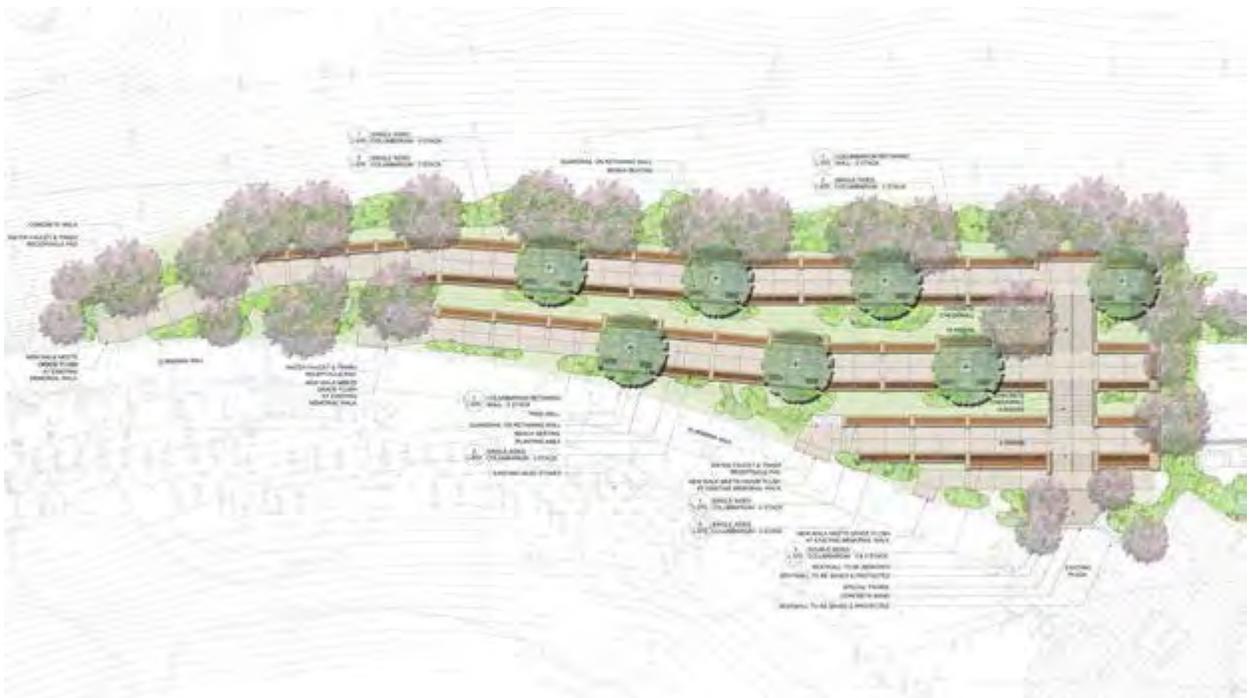
**New Administration Building & Public Information Center
East (Hillside) Elevation**

Attachment D
Conceptual Design of Columbaria A & B
Courts 13, 14, & 15

Memorandum of Agreement
Between The United States Department Of Veterans Affairs,
National Cemetery Administration,
Advisory Council on Historic Preservation
and
Hawaii State Historic Preservation Officer
for
Columbarium and Cemetery Improvements
at
National Memorial Cemetery of the Pacific



Columbarium B (Court 14) Plan View



Columbarium A (Court 15) Plan View



Columbarium A (Court 13) Perspective View

Attachment E

Memorial Wall

Memorandum of Agreement
Between The United States Department Of Veterans Affairs,
National Cemetery Administration,
Advisory Council on Historic Preservation
and
Hawaii State Historic Preservation Officer
for
Columbarium and Cemetery Improvements
at
National Memorial Cemetery of the Pacific



Memorial Wall Perspective View

APPENDIX B
Vegetation Resource Inventory



***Steve Nimz and
Associates Inc.***

Consulting Arborist Services

PO BOX 10026 Honolulu, Hawaii 96816
Office # (808) 734-5963 Fax # (808) 732-4433
Email: Steve@stevenimz.com

Vegetation Resource Inventory

Punchbowl National Memorial Cemetery of the Pacific

Honolulu, Hawaii

Prepared for:

JJR

110 Miller Avenue, Ann Arbor, Michigan 48104

Prepared by:

Steve Nimz and Associates Inc.

3620 Waiialae Avenue # 203

Honolulu, Hawaii 96816

August 2010

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1.0 Introduction

JJR is analyzing the Punchbowl National Memorial Cemetery of the Pacific to prepare for improvements. The proposed project improvements include: 1) New Administration Building and Visitor Center, 2) New Columbaria, 3) Relocated maintenance facilities, 4) New Scattering Garden Area, 5) Underground Storage Area Improvements.
(11.1 Area Map Overview)

A vegetation resource survey was performed to assess potential impacts to the cultivated landscape and undeveloped vegetated areas within the property for planning purposes. The botanical survey serves to inform and guide decisions relating to the use of existing plant species and the preservation of any rare or native species identified on the property.

2.0 Environmental Setting

Punchbowl Memorial Cemetery of the Pacific is located near downtown Honolulu within the Punchbowl Special Design District. The 116-acre cemetery is situated in the basin of the Puowaina Crater, an extinct volcanic tuff cone which erupted 75,000-100,000 years ago.

Honolulu's balmy, subtropical climate provides little temperature fluctuation with an average annual low-high range of 71 – 84° C and an annual average rainfall of 11.5". Hawai'i's trade winds blow at an average wind speed of 10.2 MPH in the downtown area making Punchbowl's climate ideal.

3.0 Land Use Zoning Designations

The City and County of Honolulu has designated the Punchbowl District as a Special Design District and provides development and tree preservation guidelines for the area surrounding the Puowaina Crater. These guidelines provide building height restrictions and setback requirements intended to preserve and enhance the character of the famous landmark (Appendix I). Punchbowl Memorial Cemetery's federal jurisdiction supersedes state and municipal authority and, therefore, development is not bound by these regulations. However, it is recommended that the Punchbowl Special Design District Guidelines be incorporated and municipal and environmental organizations such as the City and County of Honolulu, The Outdoor Circle, and Scenic Hawaii be consulted after improvement designs have been developed.

The two zoning designations assigned to the study areas per the City and County of Honolulu Land Use Ordinance (LUO) are P-1 Restricted Preservation District and P-2 General Preservation District. (13.0 Land Use Zoning Designation Map)

P-1 designation indicates the land is located within the State of Hawaii's Land Use Conservation District and is under the authority of Department of Land and Natural Resources (DLNR) Office of Conservation and Coastal Lands.

P-2 designation indicates the land is located within the State of Hawaii's Land Use Urban District and is under the jurisdiction of the City and County of Honolulu LUO.

4.0 Methods

Steve Nimz, ISA Certified Arborist, ASCA Consulting Arborist and Joshlyn Sand, ISA Certified Arborist and Horticulturist conducted and compiled a botanical field inventory in July, 2010. Vascular plant species were identified and the study area was assessed for United States Federally Listed Endangered Species and threatened or rare plants. In general, plant nomenclature follows D.J. Mabberely 2008, supplemented by accepted taxonomic print and internet database references.

Plant species were mapped according to five specific study areas using Google Earth 2009 aerial imagery. Corresponding species were listed in table format with photo identification number, location, size, health and structural condition, and mitigation recommendations. These tables correlate with study areas and site maps numbered one to five.

5.0 Vegetation Types

Two distinct vegetation types are represented in the study areas; the cultivated landscape areas located within the crater basin and the low elevation, disturbed habitat of the sloped area east of the Puowaina Drive entrance road.

The cultivated landscape area contains forty-six introduced plant species and two native tree species which were planted as ornamentals (Site Maps # 1, 3-5).

The lowland, disturbed habitat east of the entrance road contains a mix of common introduced, naturalized species, such as *Leuceana leucocephala* (koa haole), *Thevetia peruviana* (be-still tree), *Schefflera actinophylla* (octopus tree) and *Opuntia ficus-indica* (prickly pear cactus). (Site Map #2 Slope and Lower Level).

6.0 Vascular Plant Species Inventory and Plant Records Research

6.1 Field Inventory

The field inventory identified a total of forty-eight vascular plant species in the Punchbowl Memorial Cemetery of the Pacific study areas. These include twenty-four species of trees, seven shrubs, five palms, two cacti and ten tropical landscape plants. Of the total, two tree species are native Hawaiian plants. There are eight *Sapindus oahuensis* (lonomea) planted in the Maintenance Area landscape. Lonomea is endemic to the islands of Kaua'i and O'ahu. There are two *Cordia subcordata* (kou) planted next to the lonomea. Kou is indigenous to all Hawaiian Islands except Moloka'i and Kaho'olawe. Both species are secure in conservation status, frequently used as native landscape plants, and available in the nursery trade. The remaining forty-six species are of introduced origin. Two species are Polynesian introductions, *Artocarpus altilis* (breadfruit) and *Cordyline fruticosa* (ti plant). All species

are common to the landscape industry and not classified as threatened, vulnerable or endangered. (10.0 Vascular Plant Species Inventory)

6.2 Floras and Native Plant Records Research

In addition to the field inventory, research staff at the Bishop Museum Herbarium Pacificum was contacted to confirm the existence of any botanical floras completed for the Punchbowl area. It was found that no published floras exist, however the staff generated a database spreadsheet listing all historical plant voucher records housed at the herbarium citing either Puowaina or Punchbowl. The query results found no native plants of note citing the area among the plant voucher records at Bishop Museum. (12.0 Bishop Museum Plant Voucher Record Inventory)

7.0 Federally Listed, State and International Rare Plant Species

7.1 Federally Listed Plants

There were no plant species listed as endangered by The United States Fish and Wildlife Service identified within the study areas.

7.2 State Rare Plants

There were no plant species identified as threatened, vulnerable or rare by the State of Hawai'i or known conservation authorities. The two native tree species identified are classified as secure in conservation status and available in the nursery trade.

7.3 International Rare Plant Species

There were no plant species identified as threatened, vulnerable or rare by internationally known conservation authorities.

8.0 Observations and Comments

All significant trees and shrubs were analyzed for health, structural soundness and potential mitigation recommendations were recorded in the corresponding tables. (11.0 Site Maps, Photographs and Plant Species Tables)

Comments regarding the significant tree and shrub vegetation existing within the five mapped study areas are as follows:

Site Map # 1: Preservation of the large perimeter trees separating the grave sites from the building area is recommended. The plantings around the office building area are not good candidates for relocation.

Site Map # 2: The upper area monkeypod trees and Manila palms are candidates for relocation, if the new design cannot incorporate the existing planting scheme. The lower area

is undeveloped with no significant plantings of high value. There are a few ficus trees that may provide screening value.

Site Map # 3: The nine trees planted adjacent to the road are a mixture of three different species. Three of the younger narra trees could be relocated.

Site Map# 4: Preservation of the five mature monkeypod trees along the entry and services road is recommended. The eight native lonomea, two kou and one small monkeypod are candidates for potential relocation.

Site Map # 5: The seventeen monkeypod trees are recent plantings and juvenile in stature. The area between the trees and roadway is limited and a concern for future trunk and structural root growth in relationship to a six to eight foot wide sidewalk.

9.0 Summary

The combination of our field inventory and archive research identified no endangered or rare native plant species in need of consideration as development plans precede. The eight lonomea trees and two kou trees on Site Map # 4 on the back slope behind the Maintenance Building are recent plantings and could easily be relocated or propagated if they impact the design plans.

Tree preservation is recommended in some areas where the trees represent a defining character to the landscape and the trees are too mature to make relocation practical. In other cases, tree relocation was recommended for select, less mature trees that may have landscape value providing the new designs can accommodate their incorporation.

As development proceeds, it is advised that municipal Special District Design Guidelines are considered and environmental organizations are included in the review process to acknowledge the community's desire for an unobstructed view of the treasured Punchbowl landmark.

**10.0 Vascular Plant Species Inventory
Punchbowl Memorial Cemetery of the Pacific
July 2010**

<u>Scientific Name</u>	<u>Common Name</u>	<u>Family</u>	<u>Origin*</u>
Trees			
<i>Albizia lebeck</i>	White monkeypod	Fabaceae	I
<i>Araucaria heterophylla</i>	Norfolk Island pine	Araucariaceae	I
<i>Artocarpus altilis</i>	Breadfruit	Moraceae	PI
<i>Callistemon viminalis</i>	Weeping bottlebrush	Myrtaceae	I
<i>Cassia x nealiae</i>	Rainbow shower	Fabaceae	I
<i>Clusia rosea</i>	Autograph tree	Guttiferae	I
<i>Cordia subcordata</i>	Kou	Boraginaceae	N(I)
<i>Ficus benjamina</i>	Benjamin fig	Moraceae	I
<i>Ficus microcarpa</i>	Chinese banyan	Moraceae	I
<i>Leucaena leucocephala</i>	Koa haole	Fabaceae	I
<i>Mangifera indica</i> 'Perry'	Mango	Anacardiaceae	I
<i>Persea americana</i>	Avocado	Lauraceae	I
<i>Pithecellobium dulce</i>	Opiuma	Fabaceae	I
<i>Prosopis pallida</i>	Kiawe	Fabaceae	I
<i>Pterocarpus indicus</i>	Narra	Fabaceae	I
<i>Roseodendron donnell-smithii</i>	Gold tree	Bignoniaceae	I
<i>Samanea saman</i>	Monkeypod	Fabaceae	I
<i>Sapindus oahuensis</i>	Lonomea	Sapindaceae	N(E)
<i>Schefflera actinophylla</i>	Octopus tree	Araliaceae	I
<i>Swietenia mahagoni</i>	Mahogany	Meliaceae	I
<i>Syzygium cumini</i>	Java plum	Myrtaceae	I
<i>Tabebuia rosea</i>	Pink tecoma	Bignoniaceae	I
<i>Tamarindus indica</i>	Tamarind	Fabaceae	I
<i>Thevetia peruviana</i>	Be-still tree	Apocynaceae	I
Shrubs			
<i>Bougainvillea x buttiana</i> cv.	Bougainvillea	Nyctaginaceae	I
<i>Citrus limon</i>	Lemon	Rutaceae	I
<i>Eugenia uniflora</i>	Surinam cherry	Myrtaceae	I
<i>Ixora coccinea</i>	Ixora	Rubiaceae	I
<i>Leea guineensis</i>	Leea	Vitaceae	I
<i>Murraya paniculata</i>	Mock orange	Rutaceae	I
<i>Rhaphiolepis umbellata</i>	Yeddo hawthorn	Rosaceae	I

<u>Scientific Name</u>	<u>Common Name</u>	<u>Family</u>	<u>Origin*</u>
Palms			
Adonidia merrillii	Manila palm	Areaceae	I
Phoenix dactylifera	Date palm	“ “	I
Pritchardia pacifica	Fiji fan palm	“ “	I
Raphis excelsa	Raphis palm	“ “	I
Roystonea regia	Royal palm	“ “	I
Cacti			
Hylocereus undatus	Night-blooming cactus	Cactaceae	I
Optunia ficus-indica	Prickly pear	“ “	I
Tropical Landscape Plants			
Alpinia purpurata	Red ginger	Zingiberaceae	I
Anthurium x ferrierense	Anthurium	Araceae	I
Cordyline fruticosa cv.	Red ti leaf	Asparagaceae	I
Cordyline fruticosa	Ti leaf	Asparagaceae	PI
Dieffenbachia seguine	Dumbcane	Araceae	I
Dieffenbachia cv. Splash	Dumbcane	Araceae	I
Heliconia psittacorum cv.	Heliconia	Heliconiaceae	I
Ricinus communis	Caster-bean	Euphorbiaceae	I
Strelitzia reginae	Bird of paradise	Strelitziaceae	I
Tradescantia spathaceae	Oyster plant	Commelinaceae	I

Vegetation Types Summary

24	Tree species
7	Shrub species
5	Palm species
2	Cactus species
<u>10</u>	<u>Tropical plant species</u>
48	Vascular plant species

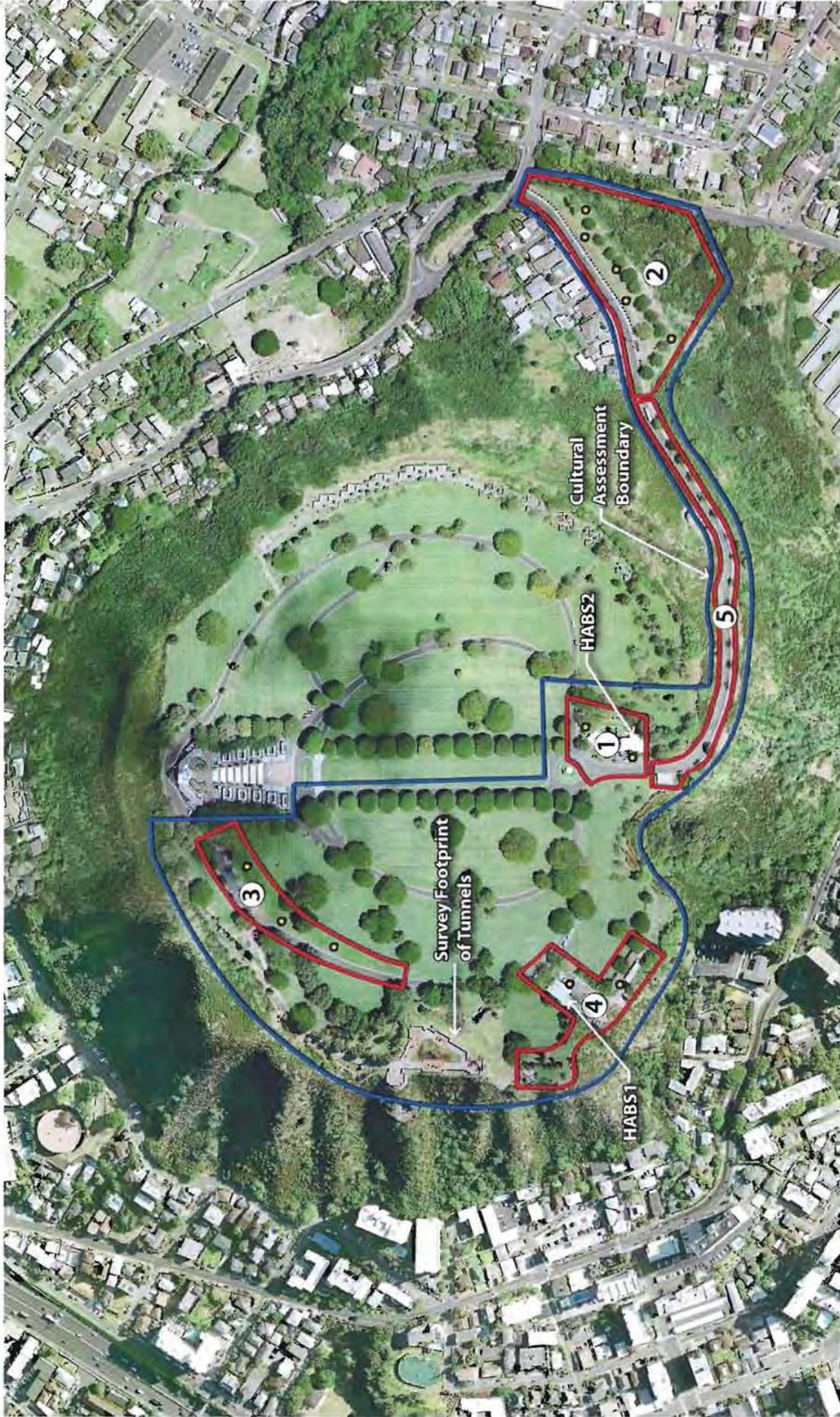
*** Origin**

I = Introduced

N(E) = Native Endemic

N(I) = Native Indigenous

PI = Polynesian Introduction



National Cemetery of the Pacific
Honolulu, Hawaii

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Site Map # 1
Office

Steve Nimz and Associates Inc.
August 2010

Memorial Cemetery of the Pacific

Image © 2010

© 2010 Google

National Memorial Cemetery of the Pacific Site Map # 1 Office

Tree #	Species	Scientific Name	Diameter (Inches)	Height (feet)	Crown Spread	Health Condition	Structural Condition	Mitigation	Photo	Comments
1	Rainbow Shower	<i>Cassia x nealae</i>	30	25	30	Good	Good	Remain	1	
2	Fiji Fan Palm or Loulu Palm	<i>Pritchardia pacifica</i>		20		Good	Good	Remain	2	
3	Fiji Fan Palm or Loulu Palm	<i>Pritchardia pacifica</i>		15		Good	Good	Remain/ Relocate	2	
4	Manila Palm	<i>Adonidia merrillii</i>		10		Good	Fair	Remove		Double trunked, decay in trunk
5	Monkeypod	<i>Samanea saman</i>	36	35	65	Good	Good	Remain	3	
6-20	Manila Palm	<i>A. merrillii</i>						Remain/ Relocate	4	
21	Breadfruit	<i>Artocarpus altilis</i>	30	25	15	Fair-Poor	Poor	Remove	5, 6, 7	Decay in lower trunk and upper branches, fungal growth and hollow trunk
22	Avocado	<i>Persea americana</i>	13	20	15	Fair	Fair	Remain/ Remove	8	
23	Mango (Perry)	<i>Mangifera indica</i>	40	35	50	Good	Good	Remain	9	
24	Mango (Perry)	<i>Mangifera indica</i>	36	20	20	Fair	Poor	Remain	10	Heavily topped
25	Surinam Cherry	<i>Eugenia uniflora</i>	8	10	10	Poor	Poor	Remove	11	
26	Lemon	<i>Citrus limon</i>	8	5	4	Poor	Poor	Remove	12	
27	Yeddo Hawthorn	<i>Raphiolepis umbellata</i>	7	8	8	Good	Good	Relocate	13	
28	Weeping Bottlebrush	<i>Callistemon viminalis</i>	9	15	15	Fair-Poor	Fair-Poor	Remove	14	
29	Royal Palm	<i>Roystonea regia</i>		25		Good	Good	Remain	15	
30	Pink Tecoma	<i>Tabebuia rosea</i>	21	25	15	Fair	Fair	Remain	16	
31	Pink Tecoma	<i>Tabebuia rosea</i>	20	20	10	Fair	Fair	Remain	16	
32	Pink Tecoma	<i>Tabebuia rosea</i>	18					Remain	17	
33	Pink Tecoma	<i>Tabebuia rosea</i>	14					Remain	18	
34-36	Manila Palm	<i>Adonidia merrillii</i>		15		Fair	Fair	Remain	19	

**National Cemetery of the Pacific
Section # 1 Office**



Photo # 1



Photo # 2



Photo # 3



Photo # 4



Photo # 5



Photo # 6



Photo # 7



Photo # 8



Photo # 9

**National Cemetery of the Pacific
Section # 1 Office**



Photo # 10



Photo # 11



Photo # 12



Photo # 13



Photo # 14



Photo # 15



Photo # 16



Photo # 17



Photo # 18



Photo # 19

Steve Nimz & Associates Inc.
August 2010

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Memorial Cemetery of the Pacific

Image ©

Site Map # 1 (A)
Plantings adjacent to building

Steve Nimz and Associates Inc.
7/14/2010

on Virtual



National Memorial Cemetery of the Pacific
Section # 1 A

Plantings adjacent to building (office)

Tree #	Species	Scientific Name	Diameter (inches)	Height (feet)	Crown Spread	Health Condition	Structural Condition	Mitigation	Photo	Comments
1 A	Dumbcane	Dieffenbachia cv. 'Splash'								
1A	Anthurium hybrid	Anthurium xferriense								
1A	Red Ti Leaf	Cordyline fruticosa cv.								
1A	Leea	Leea guineensis								
1B	Dumbcane	Dieffenbachia cv. 'Splash'								
1B	Anthurium hybrid	Anthurium xferriense								
1B	Leea	Leea guineensis								
1C	Mock Orange	Murraya paniculata								
1C	Ixora	Ixora coccinea								
1C	Red Ti Leaf	Cordyline fruticosa cv.								
1D	Bird of Paradise	Strelitzia reginae								
1E	Green Ti Leaf	Cordyline fruticosa								
1F	Panax	Polyscias guilfoylei								
1G	Croton	Codiaeum variegatum								
1G	Red Ginger	Alpinia purpurata								
1G	Red Ti Leaf	Cordyline fruticosa cv.								
1G	Heliconia	Heliconia psittacorum cv.								
1H	Red Ginger	Alpinia purpurata								
1I	Rhapis Palm	Rhapis excelsa								
1I	Oyster Plant	Tradescantia spathacea								
1J	Mock Orange	Murraya paniculata								
1K	Red Ti Leaf	Cordyline fruticosa cv.								
1K	Bougainvillea	Bougainvillea xbuttiana cv.								
1K	Bougainvillea	Bougainvillea xbuttiana cv.								
1K	Ti Plant	Cordyline fruticosa cv.								

**National Cemetery of the Pacific
Section # 1 A (Plantings adjacent to building)**



Photo # 1 A



Photo # 1 B



Photo # 1 C



Photo # 1 D



Photo # 1 E



Photo # 1 F



Photo # 1 G



Photo # 1 H



Photo # 1 I

**National Cemetery of the Pacific
Section # 1 A (Plantings adjacent to building)**



Photo # 1 J



Photo # 1 K



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Slope and Lower level

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Site map # 2
Entry and Slope/Lower Level
Steve Nimz and Associates Inc.
August 2010

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1 - # 60

National Memorial Cemetery of the Pacific Site Map # 2 Slope and Lower Level

Species	Scientific Name	Photo	Location
Koa Haole	<i>Leucaena leucephala</i>	1, 2	Steep slope along lower road from bridge to gate
Octopus Tree	<i>Schefflera actinophylla</i>	1, 2	Steep slope along lower road from bridge to gate
Ficus	<i>Ficus sp.</i>	1, 2	Steep slope along lower road from bridge to gate
Opiuma	<i>Pithecolobium dulce</i>	1, 2	Steep slope along lower road from bridge to gate
Java Plum	<i>Syzygium cumini</i>	1, 2	Steep slope along lower road from bridge to gate
Night-blooming Cereus	<i>Hylocereus undatus</i>	1, 2	Steep slope along lower road from bridge to gate
Be-still Tree	<i>Thevetia peruviana</i>	1, 2	Steep slope along lower road from bridge to gate
Opiuma	<i>Pithecolobium dulce</i>	3-9	Below row of Monkeypod trees (unimproved area)
Ficus	<i>Ficus sp.</i>	3-9	Below row of Monkeypod trees (unimproved area)
Kiawe	<i>Prosopis pallida</i>	3-9	Below row of Monkeypod trees (unimproved area)
Monkeypod	<i>Samanea saman</i>	3-9	Below row of Monkeypod trees (unimproved area)
Be-still Tree	<i>Thevetia peruviana</i>	3-9	Below row of Monkeypod trees (unimproved area)
Koa Haole	<i>Leucaena leucephala</i>	3-9	Below row of Monkeypod trees (unimproved area)
Tamarind	<i>Tamarindus indica</i>	3-9	Below row of Monkeypod trees (unimproved area)
Night-blooming Cereus	<i>Hylocereus undatus</i>	3-9	Below row of Monkeypod trees (unimproved area)
Prickly Pear or Cactus Apple	<i>Opuntia ficus-indica</i>	3-9	Below row of Monkeypod trees (unimproved area)
Castor-bean	<i>Ricinus communis</i>	3-9	Below row of Monkeypod trees (unimproved area)

**National Memorial Cemetery of the Pacific
Section # 2 Slope and Lower Level**



Photo # 1



Photo # 2



Photo # 3



Photo # 4



Photo # 5



Photo # 6



Photo # 7



Photo # 8



Photo # 9



N

Site map # 3
Upper Circle Drive
Makai Side

Steve Nimz and Associates Inc.
August 2010

©2010 Google

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#3

#2

#1

**National Memorial Cemetery of the Pacific
Site Map # 3 Upper Circle Drive Makai Side**

Tree #	Species	Scientific Name	Diameter (Inches)	Height (feet)	Crown Spread	Health Condition	Structural Condition	Mitigation	Photo	Comments
1	White Monkeypod	Albizia lebbeck	38	65	60	Good	Good	Remain	1	
2	Monkeypod	Samanea saman	22	30	50	Good	Good	Remain	2	
3	Pink Tecoma	Tabebuia rosea	19	30	20	Good	Good	Remain	3	
4	Narra	Pterocarpus indicus	8	25	15	Good	Good	Remain/ Relocate	4	
5	Gold Tree	* Roseodendron donnell-smithii	19	55	20	Good	Good	Remain	5	Deadwood *-genus changes recently from Tabebuia
6	Narra	Pterocarpus indicus	8	20	10	Good	Good	Remain/ Relocate	6	
7	Pink Tecoma	Tabebuia rosea	19	40	25	Good	Good	Remain	7	
8	Narra	Pterocarpus indicus	8	15	15	Good	Good	Remain/ Relocate	8	Codominant
9	Narra	Pterocarpus indicus	27	30	35	Good	Good	Remain	9	

**National Memorial Cemetery of the Pacific
Section # 3 Upper Circle Drive (Makai Side)**



Photo # 1

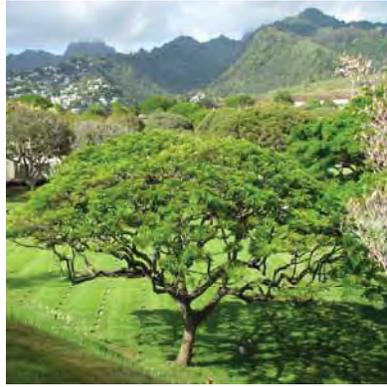


Photo # 2



Photo # 3



Photo # 4



Photo # 5



Photo # 6



Photo # 7



Photo # 8



Photo # 9



N

PAGE # 24

2009
Google

Eye alt 758 ft

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17 - # 24

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27, # 28

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48 - # 39

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Site Map # 4
Maintenance

Steve Nimz and Associates Inc.
August 2010

Image ©
in Virtual

21°18'36.62" N 157°50'47.63" W elev 370 ft

Imagery Date: Sep 28, 2008

National Memorial Cemetery of the Pacific Site Map # 4 Maintenance

Tree #	Species	Scientific Name	Diameter (inches)	Height (feet)	Crown Spread	Health Condition	Structural Condition	Mitigation	Photo	Comments
1	Monkeypod	Samanea saman	30	40	60	Good	Good	Remain	1	
2	Octopus Tree	Schefflera actinophylla	26	20	30	Fair	Fair	Remain	2	
3	Octopus Tree	Schefflera actinophylla	20	20	25	Fair	Fair	Remain	2	
4	Octopus Tree	Schefflera actinophylla	22	25	25	Fair	Fair	Remain	3	
5	Octopus Tree	Schefflera actinophylla	28	25	20	Fair	Fair	Remain	3	
6	Monkeypod	Samanea saman	26	35	50	Good	Fair	Remain	4	
7	Monkeypod	Samanea saman	24	35	45	Good	Fair	Remain	5	Lower trunk decay
8	Monkeypod	Samanea saman	25	35	50	Good	Good	Remain	6	
9	Kiawe	Prosopis pallida	25	30	60	Good	Fair	Remain	7, 8	Cluster, structural pruning
10	Kiawe	Prosopis pallida	18	30	60	Good	Fair	Remain	7, 8	Cluster, structural pruning
11	Kiawe	Prosopis pallida	17	30	60	Good	Fair	Remain	7, 8	Cluster, structural pruning
12	Kiawe	Prosopis pallida	24	30	60	Good	Fair	Remain	7, 8	Cluster, structural pruning
13	Kiawe	Prosopis pallida	18	30	30	Good	Good	Remain	9	Structural pruning
14	Kiawe	Prosopis pallida	16	30	25	Good	Fair	Remain	9	Structural pruning
15	Mahogany	Swietenia mahagoni	30	35	30	Good	Fair	Remain	10	Pipe growing in base
16	Date Palm	Phoenix dactylifera		10		Good	Good	Remain	11	
17-24	Lomeoa	Sapindus oahuensis	3	15	8	Fair	Fair	Relocate	12	
25	Kou	Cordia subcordata	6	15	8	Fair	Fair	Relocate	13	
26	Kou	Cordia subcordata	6	20	10	Fair	Fair	Relocate	13	
27-28	Kou	Cordia subcordata	3-6			Dead	Dead		14	

National Memorial Cemetery of the Pacific Site Map # 4 Maintenance

Tree #	Species	Scientific Name	Diameter (Inches)	Height (feet)	Crown Spread	Health Condition	Structural Condition	Mitigation	Photo	Comments
29	Chinese Banyan	Ficus microcarpa	28	35	40	Poor	Fair	Remain	15	Stressed, heavy gall wasp infestation
30	Chinese Banyan	Ficus microcarpa	24	2		Poor	Poor	Remove	16	Cut off stump
31	Chinese Banyan	Ficus microcarpa	60	50	80	Fair	Good	Remain	17	Gall wasp infestation
32	Octopus Tree	Schefflera actinophylla	24	25	30	Fair	Fair	Remain	18	
33	Octopus Tree	Schefflera actinophylla	18	20	20	Fair	Poor	Remove	18	
34	Oco	Schefflera actinophylla	30	25	30	Fair	Fair	Remain	18	
35	Monkeypod	Samanea saman	24	30	35	Good	Good	Remain	19	
36	Koa Haole (20)	Leucaena leucocephala	2	10	8	Fair	Fair	Remain	20	
37	Norfolk Island Pine	Araucaria heterophylla	10	25	10	Good	Good	Remain	21	
38	Monkeypod	Samanea saman	15	20	25	Good	Good	Remain/ transplant	22	
39	Norfolk Island Pine	Araucaria heterophylla	14	35	10	Good	Good	Remain	23	
40	Norfolk Island Pine	Araucaria heterophylla	13	25		Good	Good	Remain	23	
41	Norfolk Island Pine	Araucaria heterophylla	15	30		Good	Good	Remain	23	
42	Norfolk Island Pine	Araucaria heterophylla	15	30		Good	Good	Remain	23	
43	Norfolk Island Pine	Araucaria heterophylla	16	25		Good	Good	Remain	23	
44	Norfolk Island Pine	Araucaria heterophylla	18	30		Good	Good	Remain	23	
45	Norfolk Island Pine	Araucaria heterophylla	16	35		Good	Good	Remain	24	
46	Norfolk Island Pine	Araucaria heterophylla	20	45		Good	Good	Remain	24	
47	Norfolk Island Pine	Araucaria heterophylla	15	30		Good	Good	Remain	24	
48	Norfolk Island Pine	Araucaria heterophylla	22	50		Good	Good	Remain	24	
49	Autograph Tree	Clusia rosea	12	20	30	Good	Good	Remain	25	
50	Benjamin Fig	Ficus benjamina	10	12	10	Good	Good	Remain	26	
51	Chinese Banyan	Ficus microphylla	10	12	10	Fair	Fair	Remain	27	

**National Cemetery of the Pacific
Section # 4 Maintenance**



Photo # 1



Photo # 2



Photo # 3



Photo # 4



Photo # 5



Photo # 6



Photo # 7



Photo # 8



Photo # 9

**National Cemetery of the Pacific
Section # 4 Maintenance**



Photo # 10



Photo # 11



Photo # 12



Photo # 13



Photo # 14



Photo # 15



Photo # 16



Photo # 17



Photo # 18

**National Cemetery of the Pacific
Section # 4 Maintenance**



Photo # 19

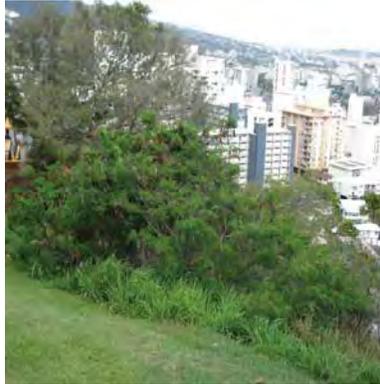


Photo # 20



Photo # 21



Photo # 22



Photo # 23



Photo # 24



Photo # 25



Photo # 26



Photo # 27



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Site Map # 5
Roadway

Steve Nimz and Associates Inc.
August 2010

Image © 2009 Google Earth
on Virtual

National Memorial Cemetery of the Pacific Site Map # 5 Roadway

Tree #	Species	Scientific Name	Diameter (Inches)	Height (feet)	Crown Spread	Health Condition	Structural Condition	Mitigation	Photo	Comments
1	Monkeypod	Samanea saman	13	35	30	Fair	Good	Remain/ Relocate	1	Stressed
2	Monkeypod	Samanea saman	14	30	35	Good	Good	Remain/ Relocate	2	
3	Monkeypod	Samanea saman	16	35	40	Good	Good	Remain/ Relocate	3	
4	Monkeypod	Samanea saman	15	30	30	Good	Good	Remain/ Relocate	4	
5	Monkeypod	Samanea saman	16	35	30	Good	Good	Remain/ Relocate	4	
6	Monkeypod	Samanea saman	14	35	30	Good	Good	Remain/ Relocate	4	
7	Monkeypod	Samanea saman	15	35	30	Good	Good	Remain/ Relocate	4	
8	Monkeypod	Samanea saman	15	30	30	Good	Good	Remain/ Relocate	5	
9	Monkeypod	Samanea saman	14	30	30	Good	Good	Remain/ Relocate	5	
10	Monkeypod	Samanea saman	13	30	30	Good	Good	Remain/ Relocate	5	
11	Monkeypod	Samanea saman	12	25	20	Good	Good	Remain/ Relocate	6	
12	Monkeypod	Samanea saman	15	30	25	Good	Good	Remain/ Relocate	6	
13	Monkeypod	Samanea saman	14	30	25	Good	Good	Remain/ Relocate	7	
14	Monkeypod	Samanea saman	13	30	30	Good	Good	Remain/ Relocate	7	
15	Monkeypod	Samanea saman	16	35	30	Good	Good	Remain/ Relocate	7	
16	Monkeypod	Samanea saman	16	35	30	Good	Good	Remain/ Relocate	7	
17	Monkeypod	Samanea saman	18	35	35	Good	Good	Remain/ Relocate	7	

**National Memorial Cemetery of the Pacific
Section # 5 Roadway**



Photo # 1



Photo # 2



Photo # 3



Photo # 4



Photo # 5

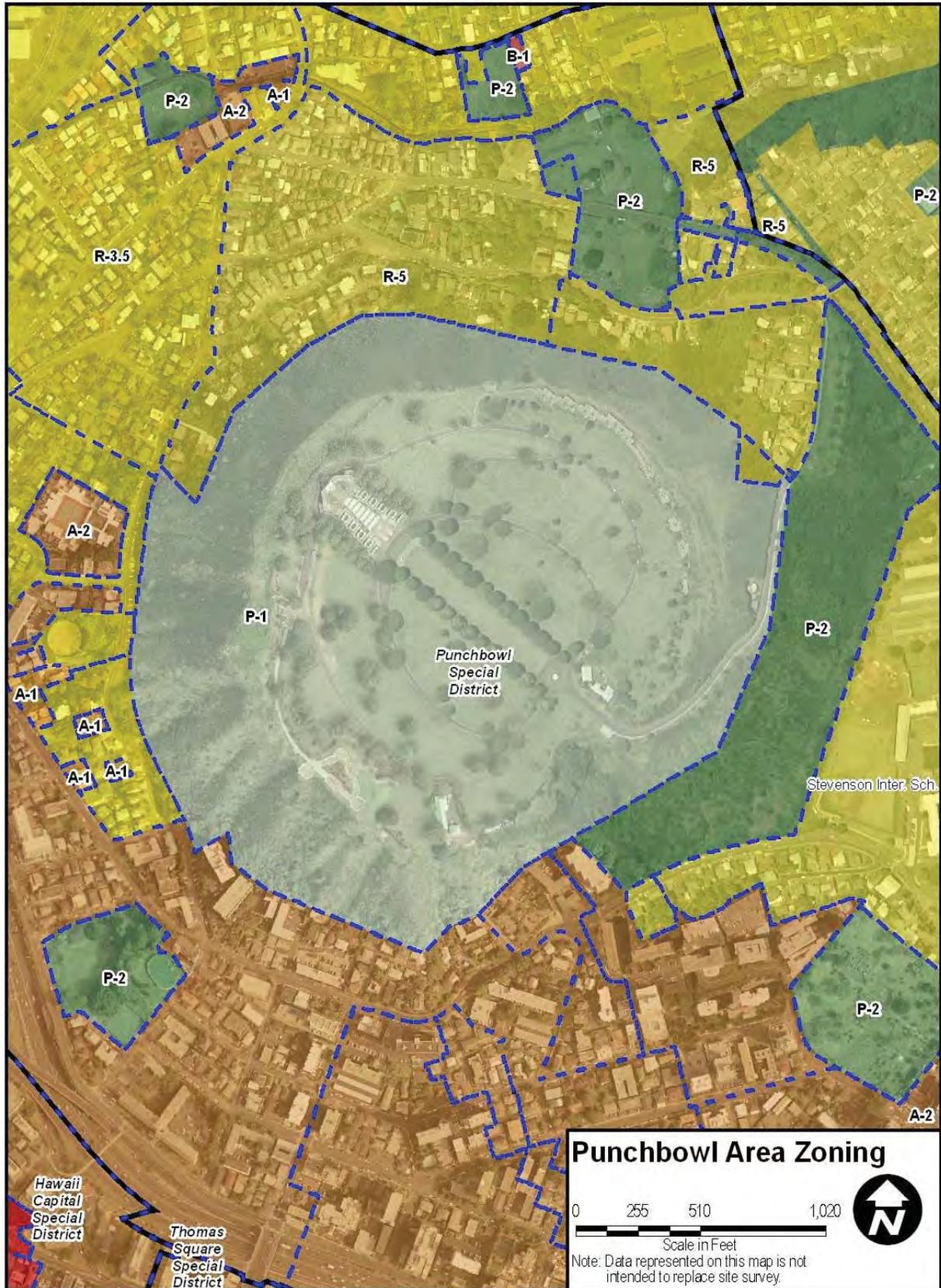


Photo # 6



Photo # 7

13.0 Land Use Zoning Designation Map

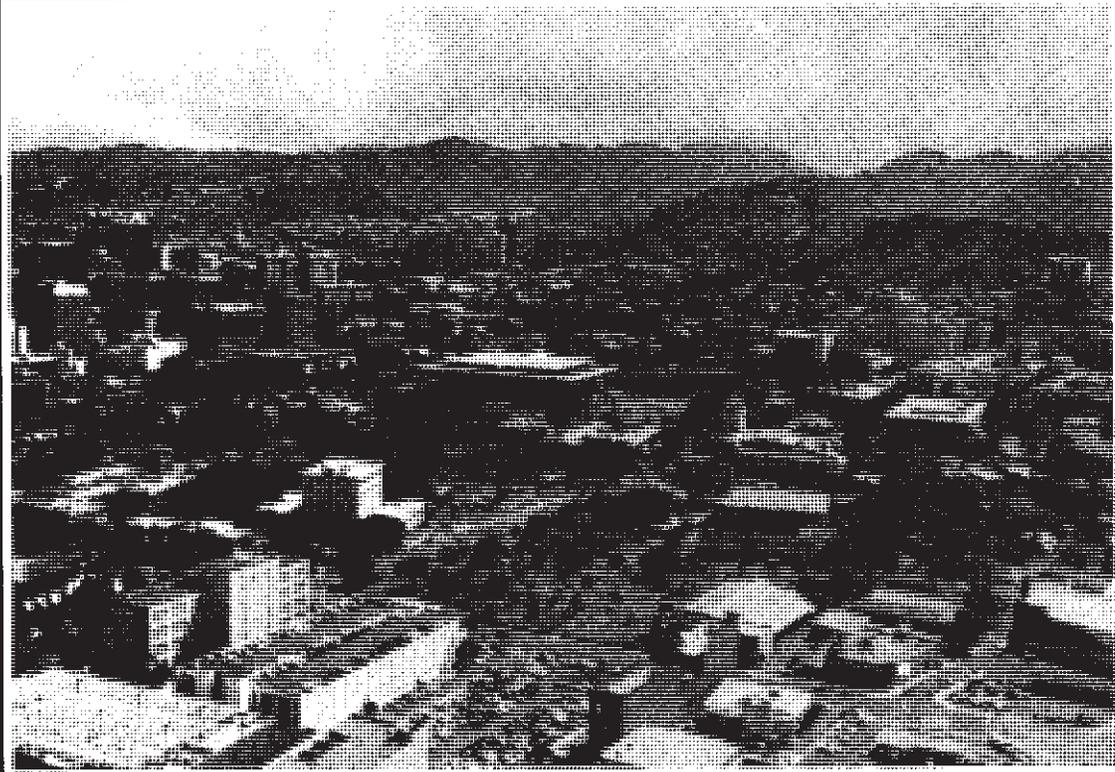


14.0 References

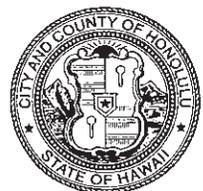
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**Special
District
Design
Guidelines**

PUNCHBOWL



Department of Planning and Permitting
City and County of Honolulu
November 2000



Index

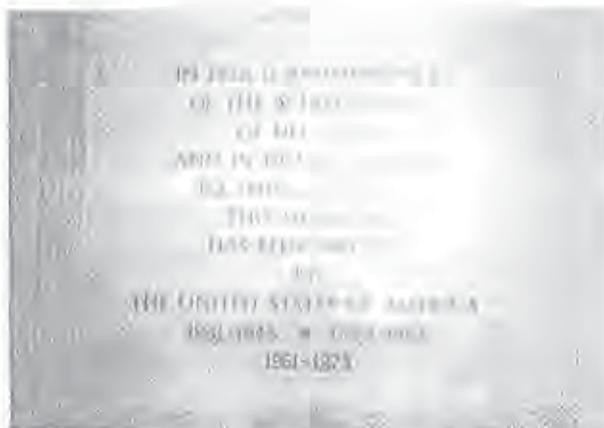
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District Objectives	3
Aerial Photo	4
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Site Planning	6
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Building bulk and Facade Treatment ..	10
Facade Treatment	11
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Entrance into Crater



Monument at the National Memorial Cemetery of the Pacific



Inscription in the chapel vestibule of the Punchbowl Memorial

Introduction

Punchbowl or Puowaina, the “hill of sacrifices” and its National Memorial Cemetery of the Pacific, is one of Hawaii’s most important landmarks, and natural features. Through the 1970’s, land development threatened views of its slopes and diminished its serenity as a National Monument.

Punchbowl and its surrounding major viewing area was designated as a Special District for its protection and enhancement. The District regulations contain various building height and front yard setback requirements, for protective measures. Special design review is required for the designated Core Area around Punchbowl itself.



Resting place of Ernie Pyle.



Resting place of Ellison S. Onizuka.

District Objectives

In order to protect and enhance the character of the Punchbowl Special District, the following objectives are stated in the City and County's zoning code, the Land Use Ordinance (LUO):

- A. Preserve and enhance Punchbowl's form and character as a significant landmark.
- B. Preserve and enhance the park-like character of the immediate slopes of Punchbowl and its major streets.
- C. Preserve and enhance significant public views to and from Punchbowl, especially those from the Punchbowl lookouts and long-range views of

Punchbowl, by modifying construction projects that would diminish those views.

- D. Provide landscaping and open space which will enhance views and the general character of the Punchbowl area.
- E. Preserve, enhance and restore to the extent possible, the serene and scenic qualities within the National Cemetery.



The serene grounds of the Crater interior.

Aerial Photo



Aerial photo of the Punchbowl Special District from above Honolulu Harbor

Site Planning

Diminishing of the Craters profile by past development started erosion of the sanctity and dignity of the National Monument.

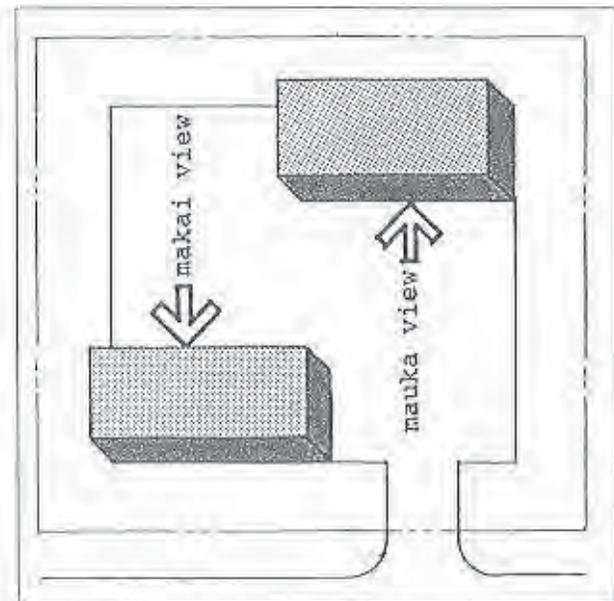
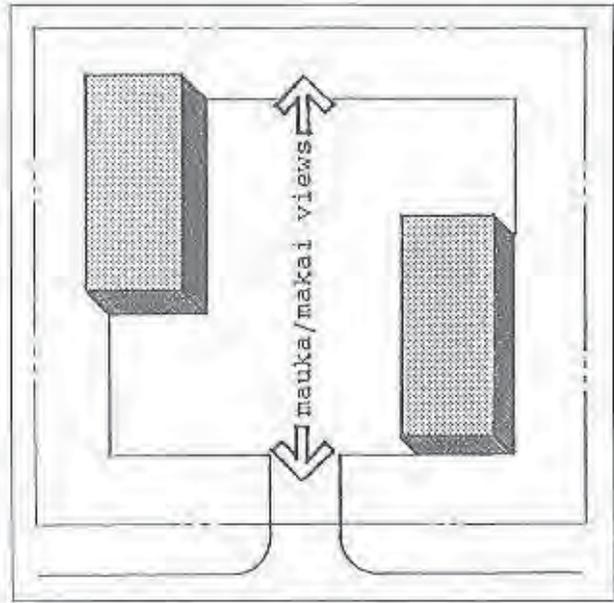
The prime objective of the District is to protect the Punchbowl Monument as a dominant physical form, and to enhance its setting.

Structures should be oriented to minimize intrusion into mauka/makai views to and from Punchbowl. Greater front yard setbacks, as delineated on the District Map, are required along major streets to expand view channels and provide opportunities for landscaping.

Views of parking, service areas and driveways, mechanical equipment and other obtrusive uses and structures should be minimized or screened to preserve the parklike mauka/makai views.



Parking and service areas screened from public views.



Orientation of buildings should preserve mauka/makai views.

Preserve and enhance views of Punchbowl



Toward Diamond Head



Toward Diamond Head



Toward the Airport

Preserve and enhance views of Punchbowl



From the Capitol District



From Mahiki. Blockage of views of Punchbowl permitted by zoning height limits prior to Height Precincts.

Heights

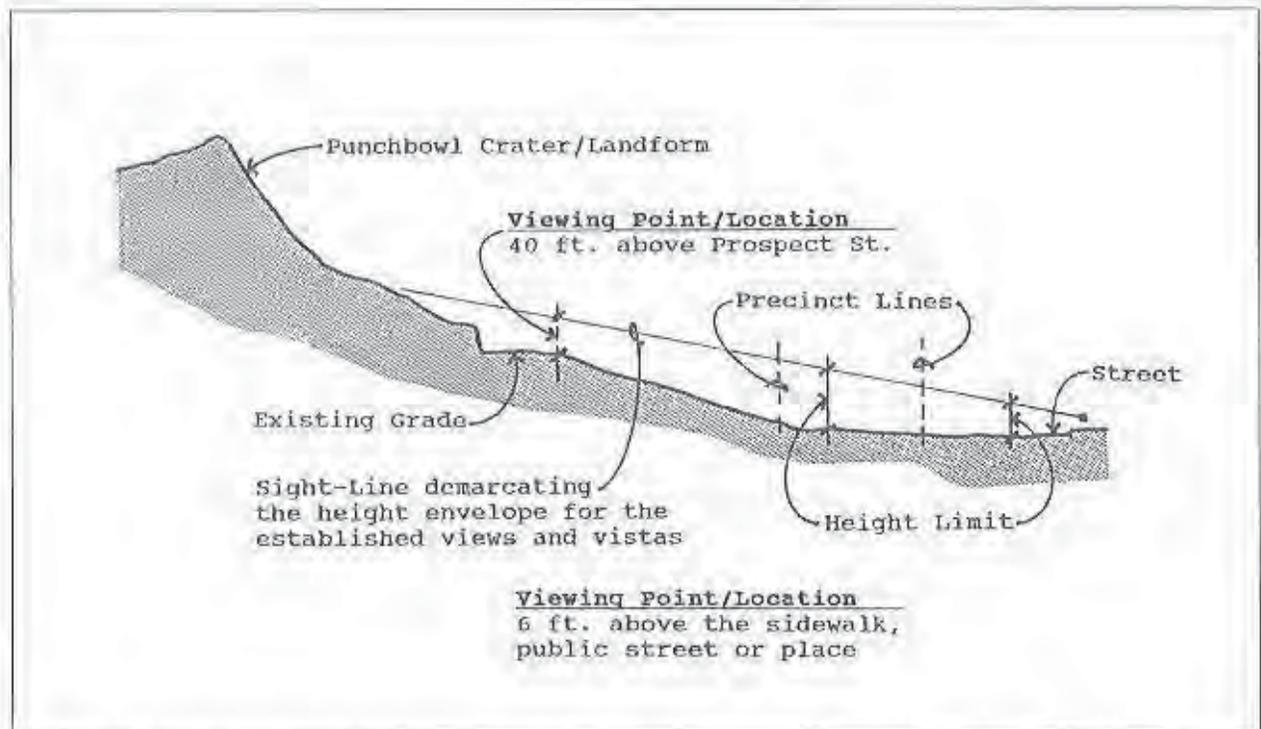
The limitation of building heights in the District is the primary means of preserving views of Punchbowl from major streets and other public areas.

The District boundaries, height limits and setbacks, as designated in the LUO, are the

result of view plane studies that determined the potential impact of new buildings on views to and from Punchbowl and its surrounding environs.



Building height limits of "0" to 250 feet have been established within the District to avoid reoccurrence of blockage as shown in above photos..



Example of view plane analysis, examining a crosssection from the H1 Freeway to Punchbowl.

Architectural Character

Building bulk and Facade Treatment

Building bulk and facades should not visually detract from views of Punchbowl. Large, plain or smooth surface walls perpendicular to views to and from Punchbowl are inappropriate.

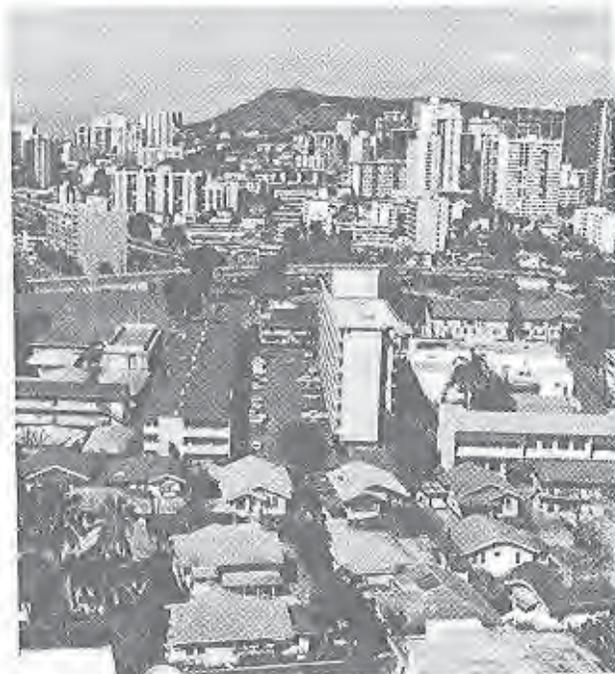
Building facades should be articulated to break up building mass and reduce visual impact. The use of recessed windows, lanais,

projecting eyebrows, and offsets in wall planes are some ways to achieve desired articulation.

Structures shall be designed to blend with Punchbowl's olive and earth tone fluted slopes. Rear elevations and roof treatment are critical to the reverse view of buildings. Imposing masses, unarticulated or exotic forms, or designs which would otherwise detract from or block views are inappropriate.



The photos illustrate the imposing effect of large building bulk on Punchbowl views



Facade Treatment

Appropriate architectural character involves balance of variety and restraint. Offset wall planes, recessed and/or projected windows, eyebrows and lanais can provide necessary shade, shadow and architectural scale.



Appropriate: Wood tones, undulating wall planes and protective overhangs.



Appropriate: Simple, efficient "block" type structure with minimum facade depth using form and shadow to emphasize scale.



Restrained elegance, pleasing lines, complementing elements.

Lighting

Materials and Color

Buildings should be of subdued earth or olive tones to blend with the crater slopes.

Finishes can be dominating. Garish, iridescent colors or highly reflective materials such as roofing, reflective glass films and polished metals that are exposed to public view are not acceptable because they are distracting, cause reflections and glare and undermine views to and from Punchbowl.

Lighting should be generally subdued and shielded so as not to detract from the ambience of the District. Incandescent light fixtures are recommended. High intensity light sources, such as sodium and fluorescent lamps, detract from the park-like setting and are discouraged.

Lighting in parking garages should be concealed or shielded to minimize glare and spillage onto passing vehicular and pedestrian traffic.



Unacceptable exposed fluorescent light source.



Acceptable lowlevel bollard light fixture.



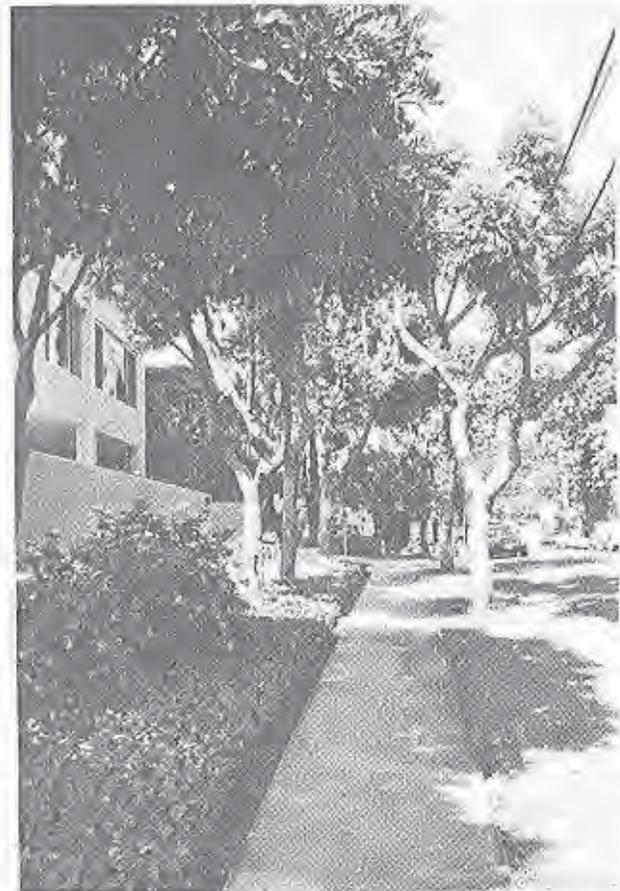
Acceptable shielded parking lot light fixture.

Landscaping

Landscaping is required and encouraged in the District to soften and blend man-made elements with the natural backdrop of Punchbowl.

In order to enhance the appearance of the District, all yards are required to be landscaped, and street trees are required along all streets. Existing trees over 6-inch caliper shall be retained unless there are no possible development alternatives. The planting of large, canopy-form trees, such as Monkey-pod and Formosan Koa, is encouraged.

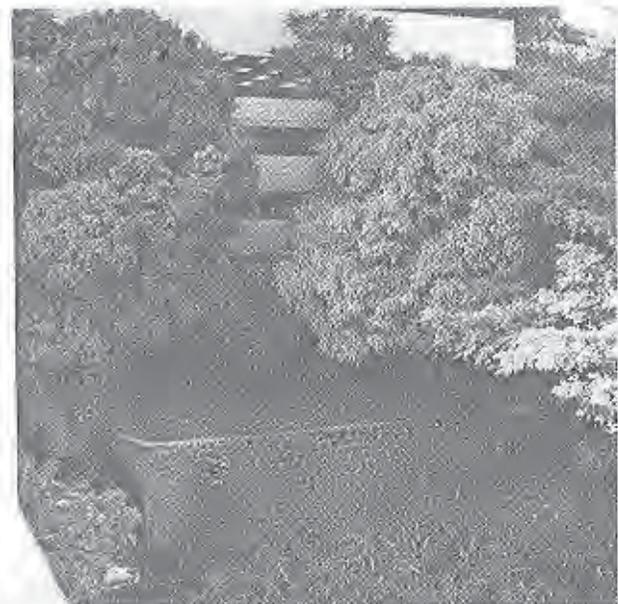
Landscaping is required in accordance with specific guidelines and regulations in the zoning code. All fences and walls exceeding 36-inches in height shall be set back a minimum of 18-inches along all streets identified as major streets on the District map, and landscaped with vine or hedge planting.



Street trees softens visual impact of roadways.



Planting along front of fence.



Retention of large existing tree.



Trellis mitigates visual impact from the Punchbowl lookout.



Trees screen views of parked cars from above.



Trees enhance parking lots.



Landscaping Features soften rigid Architectural Features.

Parking and Mechanical Equipment

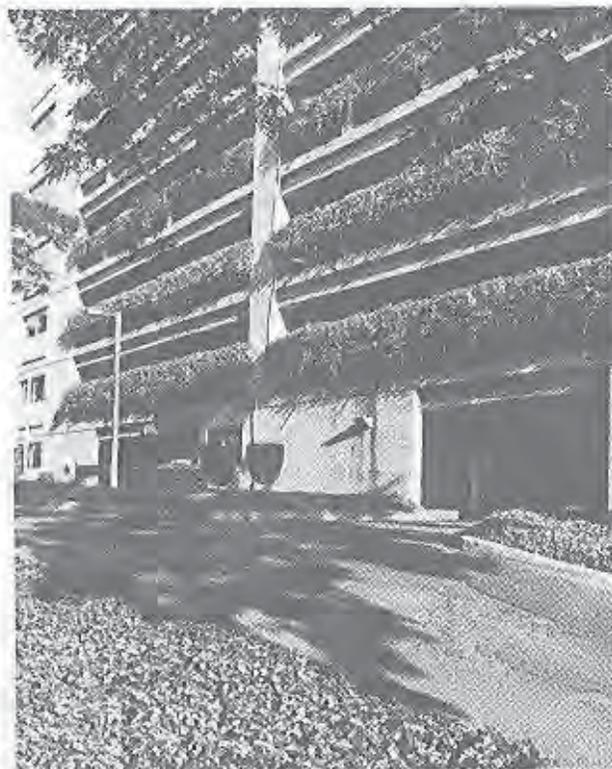


Parking and service areas screened from public view.

The prime objective of the District is to protect the Punchbowl Monument as a dominant physical form, and to enhance its setting in park-like environment.

Structures should be oriented to minimize intrusion into mauka/makai views to and from Punchbowl. Greater front yard setbacks as delineated on the District map are required along major streets, to enhance views and/or contribute to the park-like setting of the District.

Views of Parking, service areas and driveways, mechanical equipment and other obtrusive uses and structures, should be minimized or screened to preserve the park-like environment.



Planters along parking deck edges to conceal parked cars.



Ground level mechanical equipment must be shielded from pedestrian views.



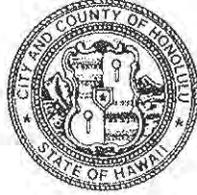
Walls effectively screen mechanical equipment from side views.

APPENDIX C
Agency Correspondence

DEPARTMENT OF PLANNING AND PERMITTING
CITY AND COUNTY OF HONOLULU

650 SOUTH KING STREET, 7TH FLOOR • HONOLULU, HAWAII 96813
PHONE: (808) 768-8000 • FAX: (808) 768-6041
DEPT. WEB SITE: www.honoluluudpp.org • CITY WEB SITE: www.honolulu.gov

PETER B. CARLISLE
MAYOR



DAVID K. TANOUÉ
DIRECTOR

JIRO A. SUMADA
DEPUTY DIRECTOR
2011/ELOG-1360(TC)
UDB Misc

July 6, 2011

Mr. Henry L. Byma, ASLA
JJR, LLC
110 Miller Avenue
Ann Arbor, MI 48104

Dear Mr. Byma:

Subject: Pre-Consultation for Draft Environmental Assessment (DEA)
National Memorial Cemetery of the Pacific
2177 Puowaina Drive - Punchbowl (Auwaiolimu and Kewalo)
Tax Map Key 2-2-5: 1, 2, and 5

This is in response to your request of June 15, 2011 for comments on the DEA preparation notice for the subject project.

On October 4, 2010, we had the opportunity to review and discuss some of the preliminary schematic designs for this project with representatives from the Veterans Administration (VA). It was our understanding that the VA might elect to waive the requirements of the Land Use Ordinance (LUO) for a Major Special District Permit. If that is the case, then we would respectfully request that the VA consider the rules and regulations of LUO Section 21-9.50 regarding the Punchbowl Special District and the Punchbowl Special District Design Guidelines. We strongly urge the VA to consider the objectives of the Punchbowl Special District, which include the following:

1. Preserve and enhance Punchbowl's form and character as a significant landmark.
2. Preserve and enhance the park-like character of the immediate slopes of Punchbowl and its major streets.
3. Preserve and enhance significant public views to and from Punchbowl, especially those from the Punchbowl lookouts and long-range views of Punchbowl, by modifying construction projects that would diminish those views.
4. Provide landscaping and open space which will enhance views and the general character of the Punchbowl area.

Mr. Henry L. Byma, ASLA
July 6, 2011
Page 2

5. Preserve, enhance and restore to the extent possible, the serene and scenic qualities within the national cemetery.

As you are aware, the National Memorial Cemetery of the Pacific is recognized as a significant national monument and as one of Hawaii's important natural landmarks. It has been designated as a national and state historic place. The natural appearance of Punchbowl and the prominent public views of Punchbowl have special local, state, and national values and are in danger of being lost or further diminished through adjacent and surrounding developments. Therefore, it is necessary to preserve and protect the public views of Punchbowl, and the appearance of its slopes and surrounding areas. We would recommend that a comprehensive visual analysis be undertaken to help minimize the visual impacts of the proposed improvements from prominent vistas and viewing areas, which are identified in Exhibit 21-9.7 of the LUO. We would also recommend that exterior building materials, finishes and colors (including roofing materials) be non-reflective and subdued in appearance.

For more information on the rules and regulations of the Punchbowl Special District and the Punchbowl Special District Design Guidelines, you may review the pdf documents from our website at <http://www1.honolulu.gov/council/ocs/roh/21990.pdf> and <http://honolulu.dpp.org/downloadpdf/zoning/PBSD.pdf>, respectively.

We thank you for the opportunity to comment on this project. Should you have any questions or need additional information, please contact Anthony Ching of our Urban Design Branch at 768-8028.

Very truly yours,



David K. Tanoue, Director
Department of Planning and Permitting

DKT:nw

Doc858402rev1



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
LAND DIVISION

POST OFFICE BOX 621
HONOLULU, HAWAII 96809

July 5, 2011

JJR, LLC
110 Miller Avenue
Ann Arbor, MI 48104

Attention: Mr. Henry L. Byma, ASLA
Mr. Neal J. Billetdeaux, ASLA, LEED AP

Ladies and Gentlemen:

Subject: Comments for Environmental Assessment for National Memorial
Cemetery of the Pacific

Thank you for the opportunity to review and comment on the subject matter. The Department of Land and Natural Resources' (DLNR), Land Division distributed or made available a copy of your report pertaining to the subject matter to Division of State Parks for their review and comment.

The Department of Land and Natural Resources has no other comments to offer on the subject matter. Should you have any questions, please feel free to call our office at 587-0414. Thank you.

Sincerely,

A handwritten signature in cursive script that reads "Charlene E. Unoki".
for Charlene Unoki
Assistant Administrator



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
LAND DIVISION

POST OFFICE BOX 621
HONOLULU, HAWAII 96809

RECEIVED
STATE PARKS DIV

JUN 23 12:13

June 21, 2011

DEPT OF LAND
NATURAL RESOURCES

MEMORANDUM

TO: **DLNR Agencies:**
 x Div. of Aquatic Resources
 Div. of Boating & Ocean Recreation
 x Engineering Division
 x Div. of Forestry & Wildlife
 x Div. of State Parks
 Commission on Water Resource Management
 x Office of Conservation & Coastal Lands
 x Land Division - Oahu District
 x Historic Preservation

Mauleve

RECEIVED
LAND DIVISION
2011 JUL -5 P 4:43
DEPT OF LAND
NATURAL RESOURCES

FROM: Charlene Unoki, Assistant Administrator
SUBJECT: Comments for Environmental Assessment for National Memorial Cemetery of the Pacific
LOCATION: Island of Oahu
APPLICANT: JJR, LLC on behalf of Department of Veterans Affairs, National Cemetery Administration

Transmitted for your review and comment on the above referenced document. We would appreciate your comments on this document. Please submit any comments by June 30, 2011.

If no response is received by this date, we will assume your agency has no comments. If you have any questions about this request, please contact my office at 587-0433. Thank you.

Attachments

- We have no objections.
- We have no comments.
- Comments are attached.

Signed: *Charlene Unoki*
Date: 6/29/11



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
LAND DIVISION

POST OFFICE BOX 621
HONOLULU, HAWAII 96809

July 5, 2011

JJR, LLC
110 Miller Avenue
Ann Arbor, MI 48104

Attention: Mr. Henry L. Byma, ASLA
Mr. Neal J. Billetdeaux, ASLA, LEED AP

Ladies and Gentlemen:

Subject: Comments for Environmental Assessment for National Memorial
Cemetery of the Pacific

Thank you for the opportunity to review and comment on the subject matter. The Department of Land and Natural Resources' (DLNR), Land Division distributed or made available a copy of your report pertaining to the subject matter to DLNR Divisions for their review and comment.

Other than the comments from Division of Forestry & Wildlife, Land Division-Oahu District, the Department of Land and Natural Resources has no other comments to offer on the subject matter. Should you have any questions, please feel free to call our office at 587-0414. Thank you.

Sincerely,

A handwritten signature in blue ink that reads "Russell Y. Tsuji".

Russell Y. Tsuji
Administrator



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
LAND DIVISION

POST OFFICE BOX 621
HONOLULU, HAWAII 96809

June 21, 2011

MEMORANDUM

FRANK ~~TO:~~

DLNR Agencies:

- Div. of Aquatic Resources
- Div. of Boating & Ocean Recreation
- Engineering Division
- Div. of Forestry & Wildlife
- Div. of State Parks
- Commission on Water Resource Management
- Office of Conservation & Coastal Lands
- Land Division – Oahu District
- Historic Preservation

Charlene

TO:

~~FROM:~~ Charlene Unoki, Assistant Administrator
 SUBJECT: Comments for Environmental Assessment for National Memorial Cemetery of the Pacific
 LOCATION: Island of Oahu
 APPLICANT: JJR, LLC on behalf of Department of Veterans Affairs, National Cemetery Administration

Transmitted for your review and comment on the above referenced document. We would appreciate your comments on this document. Please submit any comments by June 30, 2011.

If no response is received by this date, we will assume your agency has no comments. If you have any questions about this request, please contact my office at 587-0433. Thank you.

Attachments

- () We have no objections.
- () We have no comments.
- () Comments are attached.

Signed: *J. Cho*

Date: June 24, 2011

JH



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
LAND DIVISION

POST OFFICE BOX 621
HONOLULU, HAWAII 96809

June 21, 2011

MEMORANDUM

TO: **DLNR Agencies:**
 Div. of Aquatic Resources
 Div. of Boating & Ocean Recreation
 Engineering Division
 Div. of Forestry & Wildlife
 Div. of State Parks
 Commission on Water Resource Management
 Office of Conservation & Coastal Lands
 Land Division –Oahu District
 Historic Preservation

RECEIVED
LAND DIVISION
2011 JUN 29 A 10:08
DEPT. OF LAND & NATURAL RESOURCES
STATE OF HAWAII

Charlene

FROM: Charlene Unoki, Assistant Administrator
SUBJECT: Comments for Environmental Assessment for National Memorial Cemetery of the Pacific
LOCATION: Island of Oahu
APPLICANT: JJR, LLC on behalf of Department of Veterans Affairs, National Cemetery Administration

Transmitted for your review and comment on the above referenced document. We would appreciate your comments on this document. Please submit any comments by June 30, 2011.

If no response is received by this date, we will assume your agency has no comments. If you have any questions about this request, please contact my office at 587-0433. Thank you.

Attachments

- We have no objections.
- We have no comments.
- Comments are attached.

Signed: Paul J. Conroy
Date: 6/29/11



**DEPARTMENT OF BUSINESS,
ECONOMIC DEVELOPMENT & TOURISM**

NEIL ABERCROMBIE
GOVERNOR
RICHARD C. LIM
DIRECTOR
MARY ALICE EVANS
DEPUTY DIRECTOR
JESSE K. SOUKI
DIRECTOR
OFFICE OF PLANNING

OFFICE OF PLANNING

235 South Beretania Street, 6th Floor, Honolulu, Hawaii 96813
Mailing Address: P.O. Box 2359, Honolulu, Hawaii 96804

Telephone: (808) 587-2846
Fax: (808) 587-2824

2011 1024 172319

Ref. No. P-13446

October 31, 2011

Mr. William Peach
Office of Construction and Facilities Management
National Cemetery Administration
Department of Veterans Affairs
810 Vermont Ave NW (003C)
Washington, DC 20420

Dear Mr. Peach:

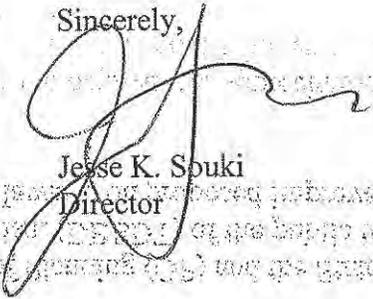
Thank you for informing the Office of Planning (OP) and the State Department of Business, Economic Development, and Tourism (DBEDT) of the public information meeting to be held on November 3, 2011 in Honolulu, Hawaii, on proposed improvements to the National Memorial Cemetery of the Pacific.

On behalf of OP and DBEDT, we wish to express our appreciation and support for your program's efforts to ensure that the facilities that honor those who have served our country in the Armed Services are well-designed and maintained.

The only comments we have to offer at this time are that: (1) the improvements maintain a sense of place that reflects the natural beauty and culture of Hawai'i; and (2) any proposed facility improvements be designed and constructed using sustainable design and green building practices.

Thank you for the opportunity to comment.

Sincerely,


Jesse K. Souki
Director

c: Richard C. Lim, Director, DBEDT.

BOARD OF WATER SUPPLY

CITY AND COUNTY OF HONOLULU
630 SOUTH BERETANIA STREET
HONOLULU, HI 96843



October 31, 2011

PETER B. CARLISLE, MAYOR

RANDALL Y. S. CHUNG, Chairman
DENISE M. C. DE COSTA, Vice Chair
THERESIA C. McMURDO
DUANE R. MIYASHIRO
ADAM C. WONG

WESTLEY K.C. CHUN, Ex-Officio
GLENN M. OKIMOTO, Ex-Officio

DEAN A. NAKANO
Acting Manager

Mr. William Peach
Department of Veterans Affairs
Office of Construction & Facilities Management
811 Vermont Avenue NW, Room 569
Washington DC 20420

Dear Mr. Peach:

Subject: Your Letter Dated October 20, 2011 on the Public Information Meeting for the Proposed Improvements to the National Memorial Cemetery of the Pacific,
TMK: 2-2-5: 1, 2, 5

Thank you for your letter on the proposed improvements at the National Memorial Cemetery of the Pacific.

The existing water system is adequate to accommodate the proposed cemetery improvements. However, please be advised that this information is based upon current data and therefore, the Board of Water Supply (BWS) reserves the right to change any position or information stated herein up until the final approval of your building permit application. The final decision on the availability of water will be confirmed when the building permit application is submitted for approval.

When water is made available, the applicant will be required to pay our Water System Facilities Charges for resource development, transmission and daily storage.

The on-site fire protection requirements should be coordinated with the Fire Prevention Bureau of the Honolulu Fire Department.

The fixture unit count for the proposed improvements should be submitted to the BWS to determine the adequacy of the water meter serving the cemetery.

If you have any questions, please contact Robert Chun at 748-5443.

Very truly yours,

SUSAN UYESUGI
Program Administrator
Customer Care Division

BOARD OF WATER SUPPLY

CITY AND COUNTY OF HONOLULU
630 SOUTH BERETANIA STREET
HONOLULU, HI 96843



January 12, 2012

PETER B. CARLISLE, MAYOR

RANDALL Y. S. CHUNG, Chairman
DENISE M. C. DE COSTA, Vice Chair
THERESIA C. McMURDO
DUANE R. MIYASHIRO
ADAM C. WONG

WESTLEY K.C. CHUN, Ex-Officio
GLENN M. OKIMOTO, Ex-Officio

DEAN A. NAKANO
Acting Manager

Mr. William Peach
Department of Veterans Affairs
Office of Construction & Facilities Management
811 Vermont Avenue, NW Room 569
Washington, DC 20420

Dear Mr. Peach:

Subject: Your Letter Dated January 10, 2012 on the Public Information Meeting for the Proposed Improvements to the National Memorial Cemetery of the Pacific, TMK: 2-2-5: 1, 2, 5

Thank you for your letter on the proposed improvements at the National Memorial Cemetery of the Pacific.

The existing water system is adequate to accommodate the proposed cemetery improvements. However, please be advised that this information is based upon current data and, therefore, the Board of Water Supply reserves the right to change any position or information stated herein up until the final approval of your building permit application. The final decision on the availability of water will be confirmed when the building permit application is submitted for approval.

When water is made available, the applicant will be required to pay our Water System Facilities Charges for resource development, transmission and daily storage.

The on-site fire protection requirements should be coordinated with the Fire Prevention Bureau of the Honolulu Fire Department.

The fixture unit count for the proposed improvements should be submitted to the Board of Water Supply to determine the adequacy of the water meter serving the cemetery.

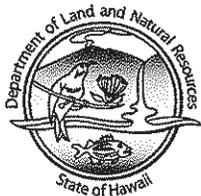
We will be meeting with the design consultant on January 17, 2012 to answer any water related questions regarding this project.

If you have any questions, please contact Robert Chun at 748-5443.

Very truly yours,

SUSAN UYESUGI
Program Administrator
Customer Care Division

NEIL ABERCROMBIE
GOVERNOR OF HAWAII



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
OFFICE OF CONSERVATION AND COASTAL LANDS
POST OFFICE BOX 621
HONOLULU, HAWAII 96809

WILLIAM J. AILA, JR.
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

GUY H. KAULUKUKUI
FIRST DEPUTY

WILLIAM M. TAM
DEPUTY DIRECTOR - WATER

AQUATIC RESOURCES
BOATING AND OCEAN RECREATION
BUREAU OF CONVEYANCES
COMMISSION ON WATER RESOURCE MANAGEMENT
CONSERVATION AND COASTAL LANDS
CONSERVATION AND RESOURCES ENFORCEMENT
ENGINEERING
FORESTRY AND WILDLIFE
HISTORIC PRESERVATION
KAHOOLAWE ISLAND RESERVE COMMISSION
LAND
STATE PARKS

Ref.:OCCL:MC

File: Corr OA-12-166

William Peach
Department of Veterans Affairs
Office of Construction & Facilities Management
Washington, DC 20420

JAN 13 2012

SUBJECT: PUBLIC INFORMATION MEETING, NATIONAL MEMORIAL CEMETERY OF THE PACIFIC
Punchbowl, Honolulu, O'ahu
TMK (1) 2-2-005:001 & 002

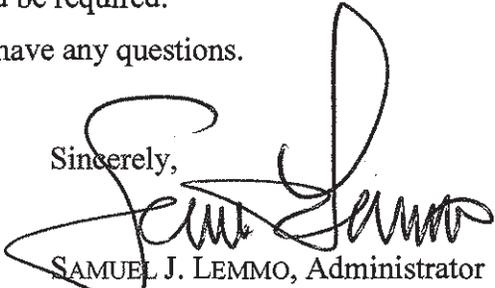
Dear Mr. Peach,

The Department of Land and Natural Resources (DLNR), Office of Conservation and Coastal Lands (OCCL) thanks you for notifying our office of the Public Information Meeting for the proposed improvements at the National Memorial Center of the Pacific, TMKs (1) 2-2-005:001 and 002. These federally-owned parcels are in the General Subzone of the State Land Use Conservation District.

OCCL will not be attending this upcoming meeting on the design process. When the project design is closer to being finalized we would invite you to meet with our staff to determine what level of Conservation District Use Permits would be required.

Please contact Michael Cain at 587-0048 if you have any questions.

Sincerely,


SAMUEL J. LEMMO, Administrator
Office of Conservation and Coastal Lands

c: Chair

APPENDIX D

List of Environmental Permits

LIST OF ENVIRONMENTAL PERMITS

The analysis and recommendations of this EA support the conclusion that the proposed improvements at the NMCP Cemetery of the Pacific will be in compliance with federal regulations.

<u>Regulation</u>	<u>Subject</u>	<u>Project Compliance Issues</u>
EO 11988	Floodplain Management	No portions of the site are located within designated floodplain.
EO 1190	Wetland Protection	No portions of the site contain wetlands
EO 11987	Exotic Organisms	No exotic/invasive species are present at the site. Appropriate actions will be implemented to prevent the spread of exotic/invasive species.
EO 12898	Environmental Justice	No disproportionate impact on minority and disadvantaged populations is expected as a result of this project.
33USC 1323 40CFR122	Clean Water Section 313;	NPDES permit(s) will be obtained as necessary for grading/construction activities.
PL 93-20	Endangered Species	No federally-listed species were observed or are known to occur at the site.
16USC1274 ET SEQ	Wild/Scenic Rivers	There are no federally designated wild/scenic rivers in the area.
Noise Control	Noise Control Act of 1972	Compliance with federal noise standards is expected during construction activities.
PL 93-348	Safe Drinking Water	Groundwater is not expected to be impacted as a result of the proposed improvements.
PL-97-348	Coastal Barriers	There are no coastal barriers in or near the site.
16 USC 141 SEQ, Amended By PL 101-508	Coastal Zone Management	There are no coastal zone areas in or near the site.
40 CFR 230	Discharge of Dredge or Fill Material	A dredge and fill permit is not required.
40 CFR 117	Reportable Quantities of Hazardous Substances	Reportable quantities of hazardous materials are expected to be generate by the proposed project.
40 CFR 761	PCB Issues	PCBs are not reported from the project site.
36 CFR 800	Historic Preservation	PENDING

APPENDIX E
Public Meetings



DEPARTMENT OF VETERANS AFFAIRS
Office of Construction & Facilities Management
Washington DC 20420

October 20, 2011

Department of Veterans Affairs
Honolulu Regional Office
459 Patterson Road, E-Wing

Honolulu, HI 96819-1522

Re: Public Information Meeting
National Memorial Cemetery of the Pacific

The Department of Veterans Affairs (VA), National Cemetery Administration (NCA) is proposing improvements to the National Memorial Cemetery of the Pacific to include:

- Construction of a new Administration/Visitor Information Building to possibly include an American Battle Monuments Commission Visitor Center
- Construction of new columbarium plazas
- Relocation of the maintenance facilities
- Sidewalk and pedestrian circulation improvements

A public informational meeting has been scheduled to present the areas within the cemetery property that are being considered for these improvements and a few early ideas. We are looking to obtain input into the design process and receive feedback so planning and design on the improvements can begin.

What: National Memorial Cemetery of the Pacific – Proposed Improvements
Public Information Meeting

When: Thursday, November 3, 2011
6:00-9:00 PM

Where: Stevenson Middle School
1202 Prospect Street
Honolulu, HI 96822

Your input is valued and we request your presence at this meeting.

Sincerely

A handwritten signature in blue ink, reading "William E. Peach", is positioned above the printed name.

William Peach

November 3, 2011 Public Information Meeting
 NMCP Contact List

Company	Company 2	Contact	Title	Address	Address 2	City, State, Zip	Phone	Fax
Department of Veterans Affairs	Honolulu Regional Office			459 Patterson Road, E-Wing		Honolulu, HI 96819-1522	800-827-1000	808-433-0478
National Memorial Cemetery of the Pacific				2177 Puowaina Drive		Honolulu, HI 96813-1729	(808) 532-3720	(808) 532-3756
USDA Natural Resources Conservation Service	Pacific Islands Area State Office	Tony Rhofes	Assistant Director for Soil Sci	P.O. Box 50004, Room 4-118		Honolulu, HI 96850	(808) 541-2600	
US EPA Region 9	Environmental Branch	Dean Higuchi		P.O. Box 50003		Honolulu, HI 96850	(808) 541-2710	(808) 541-2712
US Army Corps of Engineers, Honolulu District	Pacific Islands Fish and Wildlife Office	Kanaie Shun		Building 252		Fort Shafter, HI 96858-5440	(808) 438-0467	
U.S. Fish and Wildlife Service		Loyal Mehrhoff		300 Ala Moana Boulevard	Room 3-122, Box 50088	Honolulu, HI 96850	(808) 792-9400	(808) 792-9580
United States Senator for Hawaii		Daniel K. Inouye		300 Ala Moana Boulevard	Room 7-212	Honolulu, HI 96850-4975	808-541-2542	808-541-2549
United States Senator for Hawaii		Daniel Akaka		300 Ala Moana Boulevard	Room 3-106	Honolulu, HI 96850-4975	808-522-8970	808-545-4683
Hawaii State Representative		Mazie Hirono		5-104 Prince Kuhio Bldg.	300 Ala Moana Blvd.	Honolulu, Hawaii 96850	(808) 541-1985	(808) 538-0233
Hawaii State Representative		Colleen Hanabusa		P.O. Box 1416		Honolulu, Hawaii 96806	(808) 430-1981	
Governor of Hawaii		Neil Abercrombie	Chairperson	1050 Ala Moana Boulevard, Suite 2150		Honolulu, Hawaii 96814	808-589-2237	808-591-0468
Hawaii Department of Agriculture		Russell S. Kokubun		1428 S. King St.		Honolulu, Hawaii 96813	(808) 973-9560	
Hawaii Department of Defense	Office of Veterans Services	Greg Jackson, Jr.	Director	Tripler Army Medical Center	459 Patterson Road, E-Wing,	Honolulu, HI 96819-1522	808-433-0420	808-433-0385
Hawaii Department of Defense	Office of Veterans Services	Carswell J. "Caz" Ross Jr.	Veterans' Services	Tripler Army Medical Center	Room 1-A103	Honolulu, HI 96819-1522	808-433-0420	808-433-0385
Hawaii Department of Defense	State Veterans' Cemetery	Willie Hirokane	Coordinator	Tripler Army Medical Center	459 Patterson Road, E-Wing,	Honolulu, HI 96819-1522	808-433-0420	808-433-0385
Hawaii Department of Land and Natural Resources		William J. Alla Jr.	Cemetery Operations	45-349 Kamehameha Hwy.	Room 1-A103	Kaneohe, HI 96744	808-233-3630	808-233-3633
Hawaii Division of Forestry and Wildlife		Paul Conry	Chairperson	Kalanimoku Buildings	1151 Punchbowl St.	Honolulu, HI 96813	808-587-0400	
Hawaii State Historic Preservation Division		Pua Aiu, PhD	Administrator	Kakuhihewa Building	1151 Punchbowl St., Room 325	Honolulu, HI 96813	808-587-0166	808-587-0160
Hawaii Department of Land and Natural Resources		Russell Y. Tsuji	Administrator	1151 Punchbowl St., Room 220	601 Kamokila Blvd., Room 555	Honolulu, HI 96813	808-692-8015	808-692-8020
Hawaii Department of Land and Natural Resource Office of Conservation and Coast		Samuel J. Lemmo	Administrator	1151 Punchbowl St., Room 131		Honolulu, HI 96813	808-587-0433	808-587-0455
Hawaii State Department of Health		Loretta J. Fuddy, A.C.S.W., M Director	Director	1250 Punchbowl St.		Honolulu, HI 96813	808-587-0377	808-587-0322
Hawaii Department of Business, Economic Development and Tourism		Richard C. Lim	Director	No. 1 Capitol District Building	250 S. Hotel St.	Honolulu, HI 96813	808-586-4410	808-586-4444
Hawaii State Office of Planning		Gary Hooser		P.O. Box 2359		Honolulu, HI - 96804-2359	808-587-2846	808-587-2824
Hawaii Department of Hawaiian Homelands	Office of Environmental Quality	Hale Kalamiana'ole		235 South Beretania Street, Suite 702		Honolulu, HI 96813	808-586-4185	808-586-4186
Honolulu Hale Mayor' Office		Peter Carlisle's Office	Mayor	91-5420 Kapolei Parkway		Kapolei, HI 96707	808-620-9500	
Hawaii Department of Planning & Permitting, Urban Design		Tony Ching		530 South King Street Room 300		Honolulu, HI 96813	(808) 768-8028	
Hawaii Department Transportation Services		Wayne Y. Yoshioka	Director	650 South King Street		Honolulu, HI 96813		
Hawaii Board of Water Supply		Randall Chung	Chairman	630 S Beretania St		Honolulu, HI 96843		
Sierra Club Hawaii		Robert D. Harris, Esq.,	Director	P.O. Box 2577		Honolulu, Hawaii 96803		
Hawaii Audubon Society		John Harrison	President	850 Richards St		Honolulu, HI 96813-4709		
The Nature Conservancy of Hawaii		Grady Timmons	Comm. Director	923 Nu uanu Avenue		Honolulu, HI 96817		
Hawaii Conservation Alliance		Lihia Noori	Executive Director	677 Ala Moana Blvd Suite 320		Honolulu, HI 96813		
Scenic Hawaii, Inc.				P.O. Box 10100		Honolulu, HI 96816-0100		
Papakolea Community Association				2150 Tantalus Drive		Honolulu, HI 96813		
Oahu Veterans Center				1298 Kukula Street		Honolulu, HI 96818-1957		
442 RCT Veterans Club				933 Wiliwili Street		Honolulu, HI 96826		
Veterans of Foreign Wars Department of Hawaii				400 Hobron Lane		Honolulu, HI 96818-1226		
Disabled American Veterans Dept. Of Hawaii				2685 North Nimitz Highway		Honolulu, HI 96819		
American Legion		Joseph McCloskey	Commander	612 McCully Street		Honolulu, HI 96826		
Vietnam Veterans of America Chapter 858				1298 Kukula Street		Honolulu, HI 96818		
Korean War Veterans Association Aloha Chapter				4224 Waialac Avenue Suite 5-304		Honolulu, HI 96816-0100		
Honolulu Veterans Center				1680 Kapiolani Boulevard, Suite F-3		Honolulu, HI 96814		



DEPARTMENT OF VETERANS AFFAIRS
Office of Construction & Facilities Management
Washington DC 20420

National Memorial Cemetery of the Pacific
Public Information Meeting
Stevenson Middle School
Thursday, November 3, 2011
6:00-9:00 PM

AGENDA

- I. Introductions
- II. Format of Meeting
- III. Project Overview
 - Purpose and Need
 - Status of Existing Facilities
- IV. Studies Completed to Date
 - Cultural Impact Assessment
 - Archaeological Inventory Survey
 - Geotechnical Investigation
 - Botanical Investigation
- V. Proposed Improvements
- VI. What we would like from you
- VII. Next Steps/Schedule

PUBLIC INFORMATION MEETING
 STEVENSON MIDDLE SCHOOL
 THURSDAY, NOVEMBER 3, 2011



PRINTED NAME

ADDRESS

CARSWELL ROSS

459 PATTERSON RD. E-WING Pk1-A403. 96819

RICHARD SOO

2274 KAPAHU ST Hon HI 96813

THEONE KANUHA

558 LAUKA ST. Hon. 96813

MICHAEL LUM

2121-A PUOWAINA DR. Hon 96813

DAVID SHIDLER

3820 POKA ST. Hon HI, 96816

ALBERT YAKUBU

2121C PUOWAINA DR

CARRIE HASEGAWA

2129-A PUOWAINA DR 96813

DIRK SOMA

2257 KAPAHU ST HI 96813

KAWIKA CRUZ

45-1141 HALELOKE PL KANEHE 96744

RONALD ARATA

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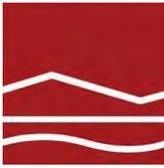
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National Memorial Cemetery of the Pacific

Public Meeting notes

Meeting Date & Time: November 3, 2011, 6:00-8:30 pm

Meeting Location: Stevenson Middle School Cafeteria

Formal Public Presentation and Open Question/Answer

Gene Castagnetti (NMCP) gave opening remarks and drew upon his long and close history with the surrounding communities. Hank Byma (JJR) used power point slides for the project overview and alternatives developed to date as well as facilitated the comments and discussions that followed. Poster boards on easels showing maps and preliminary renderings of the new PIC & Admin building and columbaria alternatives were available for review at the back of the auditorium. The following is a compilation of notes from the meeting and from conversations between members of our design team and individual meeting attendees following the formal public presentation and open question and answer period.

- a) Dirk Soma (Papakolea Neighborhood Board member) shared his favorable perspective of NMCP Punchbowl and its interaction with the surrounding community. He shared their plans for a Kupuna Wellness Center and another facility (a Hawaiian history interpretive center ???) on Department of Hawaiian Home Lands (DHHL) land along the eastern base of Punchbowl and the 5-acre site. He cited opportunities for the Federal government and the Neighborhood Board with the State government to share resources such as providing electric tour vehicles (shuttle) and parking for sightseeing in and around Punchbowl. Dirk pointed out that working with the host community will bring a "sense of place" to this Federal government's project by highlighting history of Puowaina and surrounding community before Punchbowl. The Papakolea Neighborhood Board would "love to work with the VA".
- b) Harold Johnson (Papakolea Neighborhood Board member) stated that they want to work with the VA. He noted that there is a "space problem" and recommended that VA work together with the surrounding community to utilize mutual resources. He also pointed out that the 14-acre parcel of DHHL land designated for their project is available at anytime they decide to request it.
- c) Bill Green (WWII Marine Corps veteran) stated that the NMCP project funds should be used for more immediate Veteran needs such as homelessness and joblessness. He also noted that for years there has nothing on the slope – implying that it should be left alone. Gene Castagnetti responded to Mr. Green's first statement by pointing out that this is a National Cemetery Administration project that only deals with cemeteries. Others in VA are addressing the veteran needs that he cited.
- d) Laura Pang cited that the acronym KISS should apply in this case. (KISS stands for Keep It Simple Stupid.) She pointed out that the existing office building is right where it should be because it is immediately available and accessible to assist Punchbowl visitors – so simple! She added " And please don't put a building on the side of Puowaina." She owns a condo in Makiki and remembers the scar on the side of Puowaina from the water tank construction.
- e) Audrey McVoy (sp?) inquired about the purpose of the Public Information Center (PIC). Gene Castagnetti responded by explaining the role of the PIC and how it functions.



- f) Neighbor from subdivision on Puowaina pointed out that the residences along Puowaina Drive utilize cesspools – i.e., are not sewered – and asked if this project would allow them to connect to the C&C Honolulu sewage collection system. Joel Kurokawa replied that this project will not connect their homes to the C&C Honolulu sewer system.
- g) Gentleman from the Hawaii State Veterans Cemetery (HSVC) office informed the attendees that the State of Hawaii has more burial plots and interment niches for veterans than any other state – due to efforts of many key folks over the years. There are veteran cemeteries on each of the main Hawaiian islands. He added that it was refreshing to have the VA ask for feedback and input to their current NMCP project.
- h) The meeting adjourned around 8 pm after the attendees had ample opportunities to review the renderings and to talk to the VA reps and project designers.

Individual Conversations between design team members and general public

1. Bonnie Puhī, Executive Director of Papakolea Development Corporation (PDC). She indicated that many residents in the Papakolea neighborhood in which she resides have family that are veterans and/or family members who are buried at Punchbowl Cemetery. In general she shared that the community is generally supportive of the improvements slated for this project.
Bonnie shared that PDC has secured a grant for \$250K to develop a master plan for the DHHL land at the eastern base of the Puowaina adjacent to the 5 acre site. A regional plan was previously developed and this grant will enable them to further refine their plans for the DHHL parcel. The vision for the development of that parcel include an interpretive center at the northern end of the parcel (below the 5 acre proposed site where VA is proposing new PIC/Admin building) and a Kupuna Wellness Center/community at the southern end. PDC is pursuing talks with the UH Medical Center and nearby hospitals to discuss partnerships. Ideas include housing and offices for health care providers as part of this Kupuna Wellness Center concept. The area between the Interpretive Center and Kupuna Wellness Center would be left as open space. They welcome the opportunity for collaboration with the VA.
2. A long time (since the 1950s) resident of the subdivision off Puowaina Dr. suggested that due to the traffic generated by visitors to Punchbowl, he would like to see the VA build a exit road in the vicinity where Puowaina Dr enters the crater, along the south side of Puowaina. This would alleviate traffic impacts on their subdivision by providing an exit route for vehicles.
The same resident shared that both residents from his subdivision and the neighboring Papakolea neighborhood park their cars along Puowaina Dr in the vicinity of the proposed 5 acre site.
3. Another resident from the subdivision off Puowaina Dr. shared his preference for keeping Puowaina Dr. a County road versus turning the portion of Puowaina Dr. fronting their subdivision into a residential access drive for their subdivision.

These meeting notes were compiled by Ki Concepts and represent their interpretation of discussions held during the above informational public meeting. These meeting notes are intended for use by the Ki Concepts design team and the Veteran's Administration as they explore and develop designs for proposed improvements and solicit public comment to inform the evolving design.



DEPARTMENT OF VETERANS AFFAIRS
Office of Construction & Facilities Management
Washington DC 20420

January 5, 2012

Tony Ching
Honolulu --- Department of Planning Permitting, Urban Design
650 South King Street
Honolulu, HI 96813

Re: Public Information Meeting
National Memorial Cemetery of the Pacific

The Department of Veterans Affairs (VA), National Cemetery Administration (NCA) is proposing improvements to the National Memorial Cemetery of the Pacific to include:

- Construction of a new Administration/Visitor Information Building to possibly include an American Battle Monuments Commission Visitor Center
- Construction of new columbarium plazas
- Relocation of the maintenance facilities
- Sidewalk and pedestrian circulation improvements

A public informational meeting has been scheduled to present the areas within the cemetery property that are being considered for these improvements and a few early ideas. We are looking to obtain input into the design process and receive feedback so planning and design on the improvements can begin.

What: National Memorial Cemetery of the Pacific – Proposed Improvements
Public Information Meeting

When: Thursday, January 19, 2012
6:00-9:00 PM

Where: Stevenson Middle School
1202 Prospect Street
Honolulu, HI 96822

Your input is valued and we request your presence at this meeting.

Sincerely

A handwritten signature in blue ink, reading "William E. Peach".

William Peach

**January 19, 2012 Public Information Meeting
NMCP Distribution List**

Company	Company 2	Contact	Title	Address	Address 2	City, State, Zip	Phone	Fax
Department of Veterans Affairs	Honolulu Regional Office			459 Patterson Road, E-Wing		Honolulu, HI 96819-1522	800-827-1000	808-433-0478
National Memorial Cemetery of the Pacific				2177 Puowaina Drive		Honolulu, HI 96813-1729	(808) 532-3720	(808) 532-3756
USDA Natural Resources Conservation Service	Pacific Islands Area State Office	Tony Rhofuchi	Assistant Director for Soil Sci	P.O. Box 50004, Room 4-118		Honolulu, HI 96850	(808) 541-2600	
US EPA Region 9	Pacific Islands Contact Office	Dean Higuchi		P.O. Box 50003		Honolulu, HI 96850	(808) 541-2710	(808) 541-2712
US Army Corps of Engineers, Honolulu District	Environmental Branch	Kanalei Shun		Building 252		Fort Shafter, HI 96858-5440	(808) 438-0467	
U.S. Fish and Wildlife Service	Pacific Islands Fish and Wildlife O	Loyal Mehrhoff		300 Ala Moana Boulevard	Room 3-122, Box 50088	Honolulu, HI 96850	(808) 792-9400	(808) 792-9580
United States Senator for Hawaii		Daniel K. Inouye		300 Ala Moana Boulevard	Room 7-212	Honolulu, HI 96850-4975	808.541.2542	808.541.2549
United States Senator for Hawaii		Daniel Akaka		300 Ala Moana Boulevard	Room 3-106	Honolulu, HI 96850-4975	808.522.8970	808.545.4683
Hawaii State Representative		Mazie Hirono		5-104 Prince Kuhio Bldg.	300 Ala Moana Blvd.	Honolulu, Hawaii 96850	(808) 541-1986	(808) 538-0233
Hawaii State Representative		Colleen Hanabusa		P.O. Box 1416		Honolulu, Hawaii 96806	(808) 430-1981	
Governor of Hawaii		Neil Abercrombie	Chairperson	1050 Ala Moana Boulevard, Suite 2150		Honolulu, Hawaii 96814	808-589-2237	808-591-0468
Hawaii Department of Agriculture		Russell S. Kokubun		1428 S. King St.		Honolulu, Hawaii 96813	(808) 973-9560	
Hawaii Department of Defense	Office of Veterans Services	Greg Jackson, Jr.	Director	Tripler Army Medical Center	459 Patterson Road, E-Wing, Room 1-A103	Honolulu, HI 96819-1522	808.433.0420	808.433.0385
Hawaii Department of Defense	Office of Veterans Services	Carswell J. "Caz" Ross Jr.	Veterans' Services	Tripler Army Medical Center	459 Patterson Road, E-Wing, Room 1-A103	Honolulu, HI 96819-1522	808.433.0420	808.433.0385
Hawaii Department of Defense	State Veterans' Cemetery	Willie Hirokane	Coordinator	Tripler Army Medical Center		Kaneohe, HI 96744	808.233.3630	808.233.3633
Hawaii Department of Land and Natural Resources		William J. Aila Jr.	Cemetery Operations	45-349 Kamehameha Hwy.		Honolulu, HI 98613	808.587.0400	
Hawaii Division of Forestry and Wildlife		Paul Conry	Chairperson	Kalanimoku Buildings	1151 Punchbowl St.	Honolulu, HI 98613	808.587.0166	808.587.0160
Hawaii State Historic Preservation Division		Pua Aliu, PhD	Administrator	Kakuihewa Building	601 Kamokila Blvd., Room 555	Kapolei, HI 96707	808.692.8015	808.692.8020
Hawaii Department of Land and Natural Resources		Russell Y. Tsuji	Administrator	1151 Punchbowl St., Room 220		Honolulu, HI 98613	808.587.0433	808.587.0455
Hawaii Department of Land and Natural Resource Office of Conservation and Coast		Samuel J. Lemmo	Administrator	1151 Punchbowl St., Room 131		Honolulu, HI 98613	808.587.0377	808.587.0322
Hawaii State Department of Health		Loretta J. Fuddy, A.C.S.W., M Director	Director	1250 Punchbowl St.		Honolulu, HI 98613	808.586.4410	808.586.4444
Hawaii Department of Business, Economic Development and Tourism		Richard C. Lim	Director	No. 1 Capitol District Building	250 S. Hotel St.	Honolulu, HI 98613	808.587.2846	808.587.2824
Hawaii State Office of Planning				P.O. Box 2359		Honolulu, HI - 96804-2359	808.586.4185	808.586.4186
Hawaii Department of Health	Office of Environmental Quality	Gary Hooser		235 South Beretania Street, Suite 702		Honolulu, HI 98613	808.620.9500	
Hawaii Department of Hawaiian Homelands		Hale Kalamiana ole		91-5420 Kapolei Parkway		Kapolei, HI 96707		
Honolulu Hale Mayor' Office		Peter Carlisle's Office	Mayor	530 South King Street Room 300		Honolulu, HI, 96813		
Honolulu --- Department of Planning & Permitting, Urban Design		Tony Ching		650 South King Street		Honolulu, HI 96813		
Hawaii Department Transportation Services		Wayne Y. Yoshioka	Director	650 South King Street 3rd floor		Honolulu, HI 96813		(808) 768-8028
Hawaii Board of Water Supply		Randall Chung	Chairman	630 S Beretania St		Honolulu, HI 96843		
Sierra Club Hawaii		John Harrison	President	P.O. Box 2577		Honolulu, Hawaii 96803		
Hawaii Audubon Society		Robert D. Harris, Esq.,		850 Richards St		Honolulu, HI 96813-4709		
The Nature Conservancy of Hawaii		Grady Timmons	Comm. Director	923 Nu uanu Avenue		Honolulu, HI 96817		
Hawaii Conservation Alliance		Lihia Noori	Executive Director	677 Ala Moana Blvd Suite 320		Honolulu, HI 96813		
Papakolea Community Association				P.O. Box 10100		Honolulu, HI 96816-0100		
Oahu Veterans Center				2150 Tantalus Drive		Honolulu, HI 96813		
442 RCT Veterans Club				1298 Kukila Street		Honolulu, HI 96818-1957		
Veterans of Foreign Wars Department of Hawaii				933 Wililwili Street		Honolulu, HI 96826		
Disabled American Veterans Dept. Of Hawaii				400 Hobron Lane		Honolulu, HI 96818-1226		
American Legion		Joseph McCloskey	Commander	2685 North Nimitz Highway		Honolulu, HI 96819		
Vietnam Veterans of America Chapter 858				612 McCully Street		Honolulu, HI 96826		
Korean War Veterans Association Aloha Chapter				1298 Kukila Street		Honolulu, HI 96818		
Honolulu Veterans Center				4224 Waialae Avenue Suite 5-304		Honolulu, HI 96816-0100		
				1680 Kapiolani Boulevard, Suite F-3		Honolulu, HI 96814		



DEPARTMENT OF VETERANS AFFAIRS
Office of Construction & Facilities Management
Washington DC 20420

National Memorial Cemetery of the Pacific
Public Information Meeting
Stevenson Middle School
Thursday, January 19, 2012
6:00-9:00 PM

AGENDA

- I. Introductions
- II. Format of Meeting
- III. Project Overview
 - Purpose and Need
 - Status of Existing Facilities
- IV. Studies Completed to Date
 - Cultural Impact Assessment
 - Archaeological Inventory Survey
 - Geotechnical Investigation
 - Botanical Investigation
- V. Proposed Improvements
- VI. What we would like from you
- VII. Next Steps/Schedule