



***SURVEY PLAN FOR ARCHAEOLOGY***  
***FISCAL PERIOD OCTOBER 1, 2013 - SEPTEMBER 30, 2015***

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This survey plan is based on a revised archaeology branch work plan that dedicates up to 15% of selected staff time to the survey and inventory program area. The previous archaeology work plan identified a 5% allocation for inventory, but had no allocation for a survey program. Individual work plans have been revised to reflect different levels of time investment for the various Historic Preservation Fund (HPF) programs, based on professional experience and research interests. The proposed survey projects range from site-specific to island-wide in scope, and will be conducted by either one or two staff, or by the archaeology branch staff as a group. The archaeology branch presently consists of three archaeologists qualified pursuant to the National Park Service (NPS) standards, and three assistant archaeologists. Currently, there are three archaeologists based on O'ahu, three on Hawai'i island and one on Maui. A qualified lead archaeologist will be in place on Maui before the end of 2013 calendar year, and a qualified lead archaeologist will be in place for the Island of Kaua'i as soon as possible.

Five of the survey projects proposed here involve one or two staff members; one of the projects will involve all or most of the staff members. The projects are written into each staff person's individual work plan, with a specified number of hours per pay period devoted to the project(s) they have committed to. The branch chief will ensure that status reports are submitted per the benchmarks indicated below, and that guidance is provided for individuals who commit to survey projects. There are no additional funds requested for five of the six surveys planned during the current fiscal period. These projects include island-wide thematic background research and reconnaissance fieldwork; site-specific mapping and documentation for purposes of evaluation and NR nomination; and regional synthesis with fieldwork to develop historic contexts and redefine existing district boundaries.

Due to the need for a special budget to cover travel, per diem and housing, one intensive survey and its associated documentation is planned per fiscal period. A budget for the intensive survey for fiscal 2014 has been submitted to SHPD administration and the funding has been secured. Details of this project are discussed below (see project plan 6). Additional surveys involving the entire staff as a team are anticipated for future fiscal periods. These will most likely occur on State-owned lands that have been described as containing significant cultural resources, yet lack documentation of the actual resources. We anticipate conducting intensive survey of State land within the area of the Kona Field System after the background research has been completed (see project plan 3).

Each survey project will include background research and development of a research design; updating or entering data on known sites into the current database and GIS; geo-referencing applicable maps showing prior survey coverage and site locations; field work; analysis of findings and completion of a report with recommendations. The proposed surveys are discussed below.



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**1. Hilo Bay Heiau Project:** This known but currently unnamed heiau is situated within the area of potential effects for the proposed expansion of Hilo Harbor. Although it is on the shoreline at Baker's Beach, it was not included in the study area for the inventory survey commissioned by the state in connection with the EIS for harbor expansion. The site is situated on land currently under the jurisdiction of DLNR Land Division and is planned for transferal to Harbors Division. In partnership with dedicated citizens, UH-Hilo professors and students, SHPD has assisted in securing a right of entry permit from Land Division and an SMA permit from the county to clear invasive vegetation from the site in preparation for mapping. Vegetation clearing by volunteer citizens and students has been in progress and SHPD staff (with UH students and volunteers) will begin mapping the site in September 2013. This will include detailed scale drawings of the structure, adjacent shoreline and 19<sup>th</sup>-20<sup>th</sup> century structural remains in the near vicinity. Fieldwork will be conducted by the Hawaii Island staff; approximately 40-50 labor hours are estimated for this activity. Background research will be conducted to augment what has been collected to date, and a National Register nomination form will be completed. We will also assist the community volunteer group in developing a curator agreement with Land Division for on-going maintenance of the site. Projected completion date for the National Register nomination is June 2014. Time spent on the nomination paperwork will be allocated to the National Register program area.

**2. Regional Synthesis of the Ka'u District:** Ka'u contains some of the largest tracts of undeveloped land in the state, and consequently has a large number of well-preserved archaeological complexes. This project, which includes planning elements, will be conducted by the Hawai'i Island assistant archaeologist and will follow guidelines previously established by the archaeology branch chief in compliance with NPS program area grant guidelines (Cordy 1988). Existing surveys and studies will be researched and known sites will be entered in the SIHP database in collaboration with the GIS specialist. Reconnaissance level field survey with GPS mapping is anticipated for identified state lands in order to verify presence/absence of intact features and to assess the general condition of archaeological resources. The project will then enter an inventory phase with the goal to complete the input of all legacy data for this moku, so that more in-depth planning and directed research can occur. The resulting final report/planning document will provide: an analysis of site distribution within the district, an outline of historic contexts that are suitable for the region, a framework for site evaluation in review and compliance contexts, and descriptive/background information on known cultural and historic resources. The overall project will most likely span 3-4 years, with the survey element to be completed in the current fiscal period. Benchmarks to be established and met include: 1) completion of the comprehensive bibliography and research design; 2) completion of map geo-referencing and site data entry; 3) conducting fieldwork in identified state lands; 3) completion of synthesis report, to include information as specified in the regional synthesis guidelines. After the draft report is completed, funding for final publication will be pursued. Items 1, 2 and hopefully 3 will be completed during the 2013-2015 fiscal period.



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**3. Information Update and District Boundary Revisions, Kona Field System:** The Kona Field System (SIHP 50-10-37-06601) was listed in the SIHP in 1974. The district as originally defined by Newman (1970) encompasses approximately 26,763 hectares (103 square miles) and includes thousands of land parcels, both private and public. The district was initially assessed as significant under NRHP criterion D. As the percentage of intact areas within the district diminishes, these areas are now seen as significant under multiple NRHP criteria. This survey project will be conducted by the Hawai'i Island lead archaeologist; primary goals are to redefine the geographic boundaries of the district, identify significant areas where the field system is still intact, and begin preparations to conduct systematic field survey of state-owned parcels that are best-preserved, with the goal of National Register nomination. Background work similar to the regional synthesis described above will occur, followed by inventory data entry and GIS updating. This project will also examine the historic contexts identified for traditional Hawaiian agriculture and provide direction for research designs within the area of the field system. Benchmarks for this project are: 1) completion of a comprehensive bibliography and research design; 2) map geo-referencing and site data entry; 3) completion of preliminary reconnaissance of selected state parcels within the district; 4) completion of recommended boundary revisions, 5) completion of report with recommendations for SHPD intensive survey; and 6) NRHP nomination of selected area(s). This project includes planning elements because it will provide a single source for information on the Kona Field System, provide an outline of historic contexts that are suitable for the region, and provide a framework for site evaluation in review and compliance contexts. Reconnaissance level field survey with GPS mapping is anticipated in order to verify presence/absence of intact features and to assess the general condition of archaeological resources in identified land parcels. The use of remote sensing will be crucial in identifying well-preserved areas of the field system.

**4. Hawai'i Island Landing Sites:** This project is a continuation of a long-term research and survey project initiated on Maui. The research design and approach for this survey has been completed and a landing site typology has been proposed based on 37 identified and recorded landing sites (Donham 1993). The goal is to build on the existing work and further refine this historic theme with Hawai'i Island data. The survey of shoreline resources such as pre-contact and historic era landings is critical, given the rapid disintegration of these sites in connection with sea level rise. This information is also important for planning submerged resource surveys in near-shore waters. The survey will proceed by district, beginning in Puna (Zone 1) and will follow the shoreline northward through the Hilo, Kohala, North and South Kona and finally Ka'u District. Written and cartographic sources will be consulted to identify landing locations that will then be visited to determine current condition. If archaeological remains are present, the sites will be recorded using SIHP site forms, mapped, GPS located, and evaluated for National Register eligibility. The branch chief will conduct the background research and preliminary site visits. It is anticipated that UH-Hilo student interns will assist in the mapping and field recording of the landings. Where feasible, the survey will include systematic sweeps in waters immediately offshore, to depths of 30-50 feet, as visibility allows. Information on landing sites is currently being compiled, and the project will commence in earnest following completion of the Hilo Bay Heiau project.



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**5. Plantation Landscapes of East Maui:** This project will focus on gathering archival data and collecting current field information on the pineapple and sugar plantations of East Maui. The state's only operating sugar and pineapple plantations are located in East Maui, providing an opportunity to observe and record plantation infrastructure while in use. This will provide a better basis for developing a typology of features based on observed function, as well a better understanding of adaptive reuse by plantations. The project will be conducted by the Maui staff archaeologist(s). The first goal is to identify the plantation lands of interest and conduct archival research at the various plantation offices and other sources. Infrastructure complexes identified on maps with time depth greater than 50 years will be geo-referenced and entered as a layer in the SHPD GIS. Reconnaissance level survey will then be conducted to photograph, locate (GPS) and document the condition of exemplary features such as ditches, flumes, field systems, warehouses and mills. A report of findings with recommendations for research design themes and for landscape areas eligible for the National Register will be produced. The project will span two years. Benchmarks include: 1) completion of the initial archival research and identification of the study areas; 2) completion of historic map geo-referencing; 3) completion of fieldwork and site data entry; 4) report and recommendations. National Register nomination forms will be completed for recommended areas during the 2015-2017 fiscal period.

**6. Intensive Survey of Greenbank Estate:** This historic Wight family estate (1850-1915) was transferred to the SHPD in the mid-1990's after being seized by the U.S. Department of Customs and Immigration. The 22-acre North Kohala parcel is one of three properties currently held in title by the division. The Wight family cemetery and intact traditional *lo'i kalo* are known to be present on this property in addition to the remains of the estate buildings (SIHP Site 50-10-03-7120). Additional cultural resources are likely to be present, but have not been identified. None of the cultural resources have been adequately documented or evaluated for National Register eligibility. This survey will include background research and development of a research design; an intensive pedestrian survey of the entire property; full documentation of all identified cultural resources, including landscaping elements that may still be represented; entry of pertinent information in the SIHP database; GPS mapping; completion of a report of findings and recommendations; and completion of a NRHP form if eligible resources are identified. The intensive pedestrian survey is expected to occur over two days and involve most of the archaeology branch staff (64 labor hours). Site recording will occur in two-day increments and will also involve most of the branch staff, possibly in smaller groups. The branch chief will conduct much of the background research, with assistance from Hawai'i Island staff and the Hawai'i Island burial specialist.

Collection of background information has begun and staff visits to the property have occurred. The project is expected to be completed within the fiscal period. Upon completion of the survey, our office will be in a better position to finalize a curator agreement with the Wight family descendants for care of their cemetery, and to ensure they have access to the site as needed. If the property is determined eligible for the National Register, a nomination form will be prepared.



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Below is a scope of work and the proposed budget.

*SCOPE OF WORK, GREENBANK INTENSIVE SURVEY*

- Background research and development of research design – to be conducted by archaeology branch chief, one Hawaii Island staff person (archaeology or culture/history) prior to commencement of field work (est. 120 hours total)
- Systematic pedestrian survey – to be conducted by archaeology staff (six) and Hawaii Island burials specialist (est. 2 days, 112 hours total)
- Site clearing and documentation – to be conducted by archaeology staff and Hawaii Island burials specialist. This can occur the following quarter, but must be completed once started (est. 5 days, 280 hours total).
- Report completion and HRHP/NRHP nomination paperwork (if applicable; est. 120 hours total)

*BUDGET, GREENBANK INTENSIVE SURVEY*

|   |               |
|---|---------------|
| Airfare: total of five roundtrips (\$200 per trip) for three archaeologists | 3,000         |
| Lodging: Total of five nights for three in Hilo (\$150 per night)           | 2,250         |
| Per diem: Seven days total for three  | 1,890         |
| Equipment (metric tapes, sickles, flagging tape, survey pins)               | <u>2,000</u>  |
| <u>Total Expenses</u>   | <u>9,140</u>  |
| Rounded Estimate with other expenses (gas, other equipment)                 | <u>10,000</u> |

***DISCUSSION***

The survey projects proposed here may appear to be overly ambitious, given the current workload of archaeology branch staff. Certain factors should, however be considered when judging feasibility. Archaeology staff members were given the opportunity to decide which program area they wanted to focus on, and these survey projects were designed by (not assigned to) the person who will conduct the work. We are motivated by the opportunity to conduct research in the context of our SHPD positions. The work we will be doing under the survey program area is integral to our overall ability to do good compliance work, as well as contribute to the advancement of archaeology in Hawai'i. As professional staff, we welcome the opportunity to do archaeology, not just review archaeology. Findings of this work will be shared at annual professional conferences and will lead to formal publications that will have value as public education as well as planning for meaningful historic preservation in Hawai'i.



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**REFERENCES**

Cordy, Ross

1988 Guidelines for Regional Synthesis to Assist in Upgrading the Inventory, in Research, and in Long-Range Planning Concerns Regarding Data Recovery and Preservation. Paper on file, State Historic Preservation Division.

Donham, Theresa K.

1993 Maui Landing Sites. Paper presented at the 4<sup>th</sup> Annual Symposium on Maritime Archaeology and History of Hawaii and the Pacific, sponsored by University of Hawaii Marine Options Program and NOAA, Hawaii Maritime Museum, Honolulu. On file, State Historic Preservation Division.

Newman, T. Stell

1970 Hawaiian Fishing and Farming on the Island of Hawaii in A.D. 1778. Report prepared in fulfillment of the 1968 Lapakahi research contract with the Division of State Parks, Department of Land and Natural Resources.