

**FILE COPY**

**MAR 23 2012**

**DEPARTMENT OF DESIGN AND CONSTRUCTION  
CITY AND COUNTY OF HONOLULU**

650 SOUTH KING STREET, 11<sup>TH</sup> FLOOR  
HONOLULU, HAWAII 96813  
Phone: (808) 768-8480 • Fax: (808) 768-4567  
Web site: [www.honolulu.gov](http://www.honolulu.gov)

PETER B. CARLISLE  
MAYOR



LORI M.K. KAHIKINA, P.E.  
DIRECTOR

CHRIS TAKASHIGE, P.E.  
DEPUTY DIRECTOR

February 28, 2012

Mr. Gary Hooser, Director  
Office of Environmental Quality Control  
235 South Beretania Street, Suite 702  
Honolulu, HI 96813

Dear Mr. Hooser:

Subject: Draft Environmental Assessment Kailua District Park  
Softball Field Lighting System Replacement  
TMK: 4-3-056: 009, Koolauloa, Oahu, Hawaii

The Department of Design and Construction has reviewed the Draft Environmental Assessment (DEA) for the subject project, and anticipates a Finding of No Significant Impact (FONSI) determination. Please publish notice of availability for this project in the next available OEQC Environmental Notice.

We have enclosed a completed OEQC Publication Form and one (1) copy of the document in pdf format on a CD; and one (1) hardcopy of the DEA. Please call Taeyong Kim, the environmental consultant, at 528-4661, or email to [tkim@environcom.com](mailto:tkim@environcom.com) if you have any questions.

Sincerely,

  
Lori M.K. Kahikina, P.E.  
Director

LMKK:lh

Enclosure

RECEIVED  
12 MAR -9 AM 1:45  
OFC. OF ENVIRONMENTAL  
QUALITY CONTROL

**Agency Action EA  
Chapter 343, HRS  
Publication Form**

**Project Name** Kailua District Park Softball Field Lighting System Replacement

**Island:** Oahu

**District:** Koolauloa

**TMK:** 4-3-056: 009

**Permits:** Building Permits

**Proposing**

**Agency:** Department of Design and Construction (FONSI Anticipated)  
650 South King Street, 11<sup>th</sup> Floor  
Honolulu, HI 96813

**Consultant:** Environmental Communications, Inc.  
1188 Bishop Street, Suite 2210  
Honolulu, HI 96813  
Taeyong Kim (528-4661)

**Status:** (30-day comment period)

**Summary:**

The project site is in current use as one of three softball fields located within the Kailua District Park complex. The park service as the primary municipal recreational complex in the central Kailua Town area.

The project site is located immediately north of Kailua Road, and across the street from commercial properties and the Kailua Town retail district. To the west lie more commercial areas. The District Park office, swimming pool, tennis courts and parking lot and additional play fields lie to the north and northwest. The Kailua Intermediate School lies to the northeast of the site. Southeast of the project site lies residential areas.

The proposed project consists of the replacement of the existing softball field lighting system. The proposed scope of work will include the removal of the existing system, the installation of new poles and luminaries, new control systems, and a new accessible walkway.

DRAFT ENVIRONMENTAL ASSESSMENT  
**KAILUA DISTRICT PARK**  
**SOFTBALL FIELD LIGHTING SYSTEM REPLACEMENT**  
KOOLAULOA, OAHU, HAWAII

Agency:  
Department of Design and Construction

Prepared By:  
Environmental Communications, Inc.

March 2012

**TABLE OF CONTENTS**

<u>CHAPTER</u>	<u>PAGE</u>
ONE PROJECT SUMMARY .....	5
TWO PROPOSED PROJECT AND STATEMENT OF OBJECTIVES .....	7
2.1 Project Location .....	7
2.2 Project Description .....	7
2.2.1 Demolition .....	7
2.2.2 New Lighting System .....	7
2.2.3 New Concrete Sidewalk .....	8
2.3 Project Objective .....	8
2.4 Funding and Scheduling.....	8
THREE DESCRIPTION OF ENVIRONMENT, ANTICIPATED IMPACTS & MITIGATION.....	15
3.1 Environmental Setting .....	15
3.2 Surrounding Uses .....	15
3.3 Environmental Considerations .....	15
3.3.1 Geological Characteristics .....	15
3.3.2 Water Resources .....	16
3.3.3 Archaeological Assessment .....	16
3.3.4 Cultural Assessment.....	18
3.3.5 Traffic.....	18
3.3.6 Air Quality.....	18
3.3.7 Noise Environment.....	18
3.3.8 Biological Characteristics.....	18
3.3.9 Infrastructure and Utilities .....	19
3.3.10 Public Facilities .....	19
3.4 Relationship to Plans, Codes and Ordinances .....	20
3.5 Probable Impact on the Environment .....	20
3.6 Adverse Impacts Which Cannot be Avoided .....	21
3.7 Alternatives to the Proposed Action .....	21
3.8 Mitigation Measures .....	22
3.9 Irreversible and Irrecoverable Commitment of Resources .....	22
FOUR LIST OF NECESSARY PERMITS AND APPROVALS.....	23
FIVE FINDINGS AND REASONS SUPPORTING DETERMINATION .....	24
SIX LIST OF PARTIES CONSULTED PRIOR TO DEVELOPMENT OF THE DRAFT ENVIRONMENTAL ASSESSMENT .....	25



**SECTION ONE  
PROJECT SUMMARY**

**AGENCY:** Department of Design and Construction  
650 South King Street, 11<sup>th</sup> Floor  
Honolulu, Hawaii 96813

**AGENT:** Environmental Communications, Inc.  
1188 Bishop Street, Suite 2210  
Honolulu, Hawaii 96813

**PROJECT NAME:** Kailua District Park  
Softball Field Lighting System Replacement

**PROJECT LOCATION:** 21 South Kainalu Drive  
The project area is located at southern (mauka)  
corner of the park, along Kailua Road, in Kailua,  
Oahu, Hawaii.

**TAX MAP KEY:** 4-3-056: 009

**OWNERSHIP:** City and County of Honolulu  
Department of Parks and Recreation

**LOT AREA:** Approximately 37 acres

**ZONING:** The project area is designated P-2 Preservation on  
the City and County of Honolulu Zoning Map.

**SPECIAL DISTRICT:** None

**STATE LAND USE:** Urban

**EXISTING LAND USE:** The project site is in current use as one of three  
softball fields located within the Kailua District  
Park complex. The park services as the primary  
municipal recreational complex in the central  
Kailua Town area.

The project site is located immediately north of  
Kailua Road, and across the street from commercial  
properties and the Kailua Town retail district. To  
the west lies more commercial areas. The District  
Park office, swimming pool, tennis courts and  
parking lot and additional play fields lie to the north

and northwest. The Kailua Intermediate School lies to the northeast of the site. Southeast of the project site lies residential areas.

**NATURE OF DEVELOPMENT:**

The proposed project consists of the replacement of the existing softball field lighting system. The proposed scope of work will include the removal of the existing system, the installation of new poles and luminaries, new control systems, and a new accessible walkway.

**PROJECT COST:**

Approximately \$980,000

**PROJECT SCHEDULE:**

The project is anticipated to be completed in early 2013.

## **SECTION TWO**

### **PROPOSED PROJECT AND STATEMENT OF OBJECTIVES**

#### **2.1 PROJECT LOCATION**

The project site is located at southern (mauka) corner of the Kailua District Park, along Kailua Road, in Kailua, Oahu, Hawaii. The street address of the park 21 South Kainalu Drive, Kailua, Hawaii 96734. The site is also identified as Tax Map Key: 4-3-056: 009. The site is owned by the City and County of Honolulu.

#### **2.2 PROJECT DESCRIPTION**

The proposed project consists of replacement of an existing wood pole lighting system for the existing 200-foot softball field with a new steel pole lighting system that has been designed to serve the illumination requirements for a future expansion of the existing field to a 300-foot softball field.

##### **2.2.1 DEMOLITION**

The existing softball field lighting system will be demolished by removal of the overhead Hawaiian Electric Service (back to Kailua Road), City owned wood utility pole and pole top transformers, pole mounted equipment cabinets, six (6) wood flood lighting poles and associated flood lights, overhead aerial cables, and associated underground infrastructures (electric ductlines and handholes).

##### **2.2.2 NEW LIGHTING SYSTEM**

The new lighting system will consist of the following improvements.

Installation of a new Hawaiian Electric underground service consisting of a pad mounted transformer (7'6"X8'0" concrete pad), underground ductlines, and an electrical equipment/HECO metering enclosure (~48"Wx15'L) located adjacent to the existing comfort station.

The new lighting system will consist of six (6) 60-foot steel poles and associated 1000 Watt metal halide floodlights (white color light). Four (4) poles to be installed under the current funding allocation and two (2) outfield poles will be installed under a future funding allocation. Concrete foundations of approximately 17'-0"D x 4'-6" diameter for be installed for each new pole.

Electrical distribution on site will be provided by underground ductlines in trenches approximately 24"W x 36"D, multiple 2'x4' handholes, and one 3'x5' handhole.

The ball field will be illuminated to City and County standards for a softball field (infield-20 minimum footcandles, outfield-15 footcandles minimum). Floodlights will be provided with shielding to control and minimize the light spill onto adjacent properties.

The new lighting system will use a permissive switch and a time switch that will control the days and times that illumination will be allowed for the field.

### **2.2.3 NEW CONCRETE SIDEWALK**

A new 4' wide concrete sidewalks for ADA access will be provided from an existing sidewalk point to the ball field's pushbutton switch used to activate the lighting system. The new walkways may be illuminated by 16-foot tall lighting fixtures however this installation has not been made at the time of this report.

## **2.3 PROJECT OBJECTIVE**

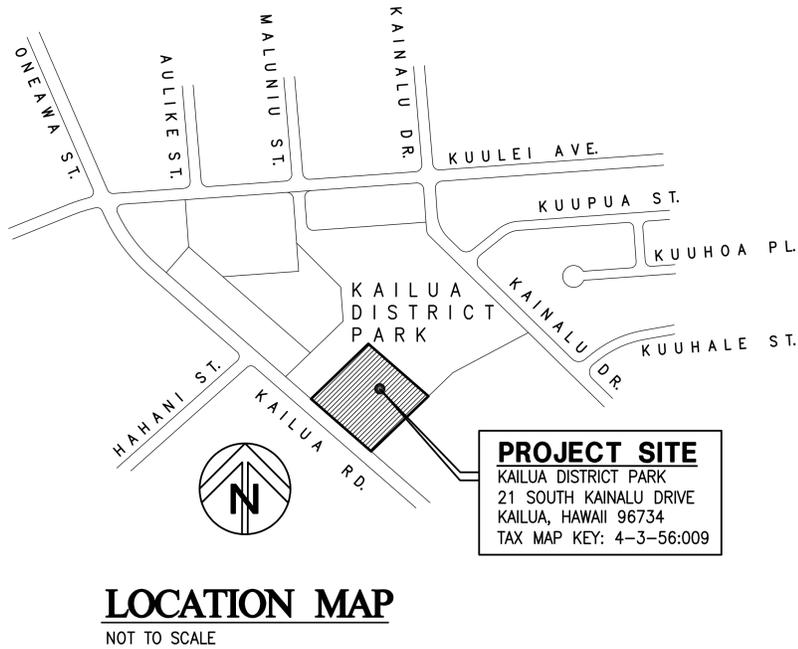
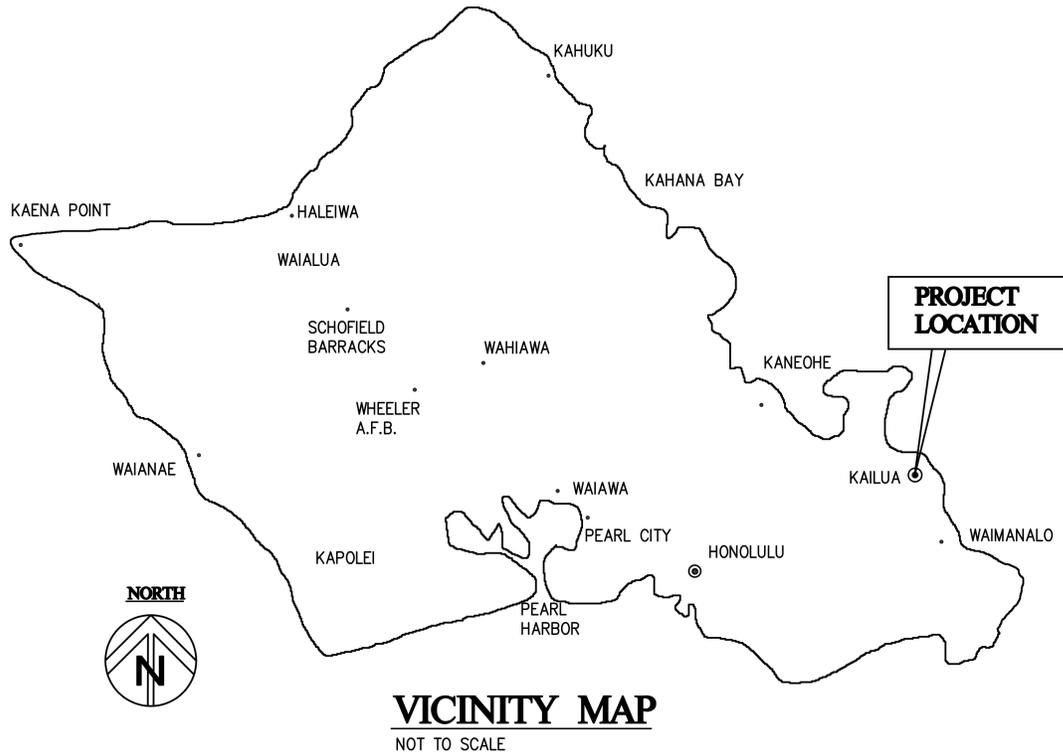
The Department of Parks and Recreation's objective for the proposed action is to create a safe evening play environment for this heavily used facility. While ball fields are available for daylight hours play, there exists a strong demand for evening play. Because only one field will be illuminated, it is being designed to accommodate a future expansion of the field to provide for safer and higher levels of softball play.

## **2.4 FUNDING AND SCHEDULE**

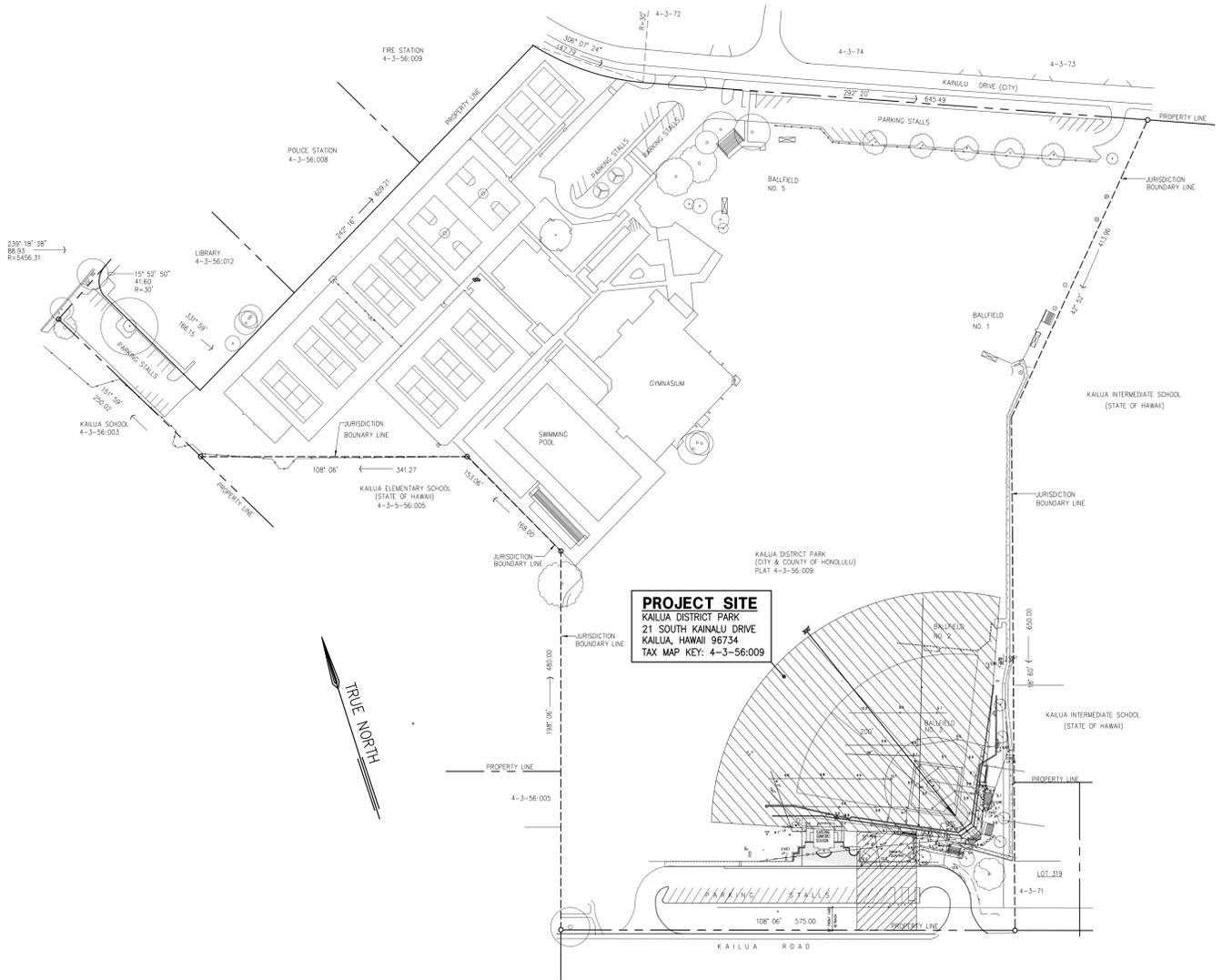
The total development cost of approximately \$980,000.

The anticipated construction start date at the time of publication of this document is during the first quarter of 2013. The project is anticipated to be completed in approximately three months.

**FIGURE 1: LOCATION MAP**



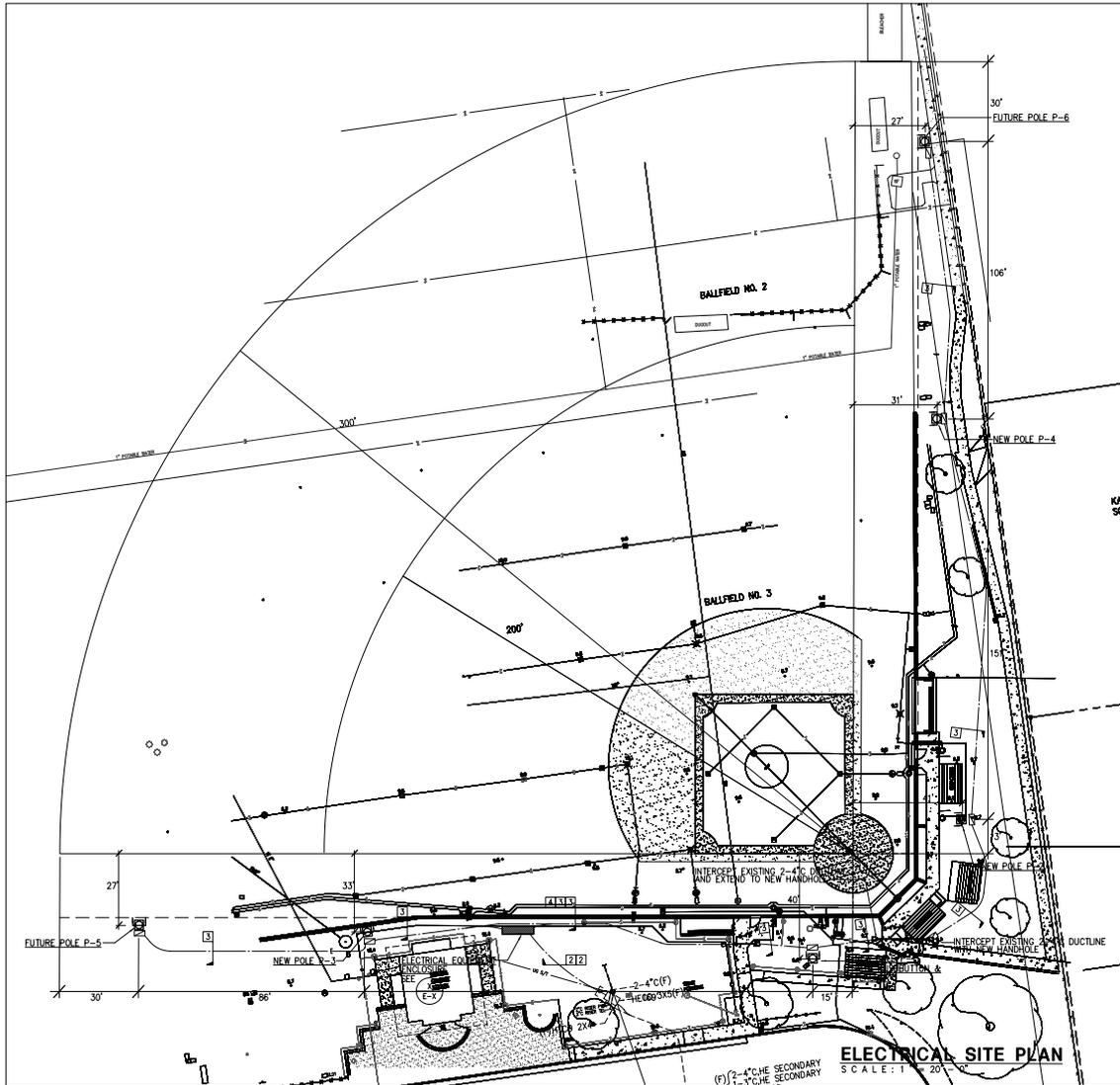
**FIGURE 2: SITE PLAN**



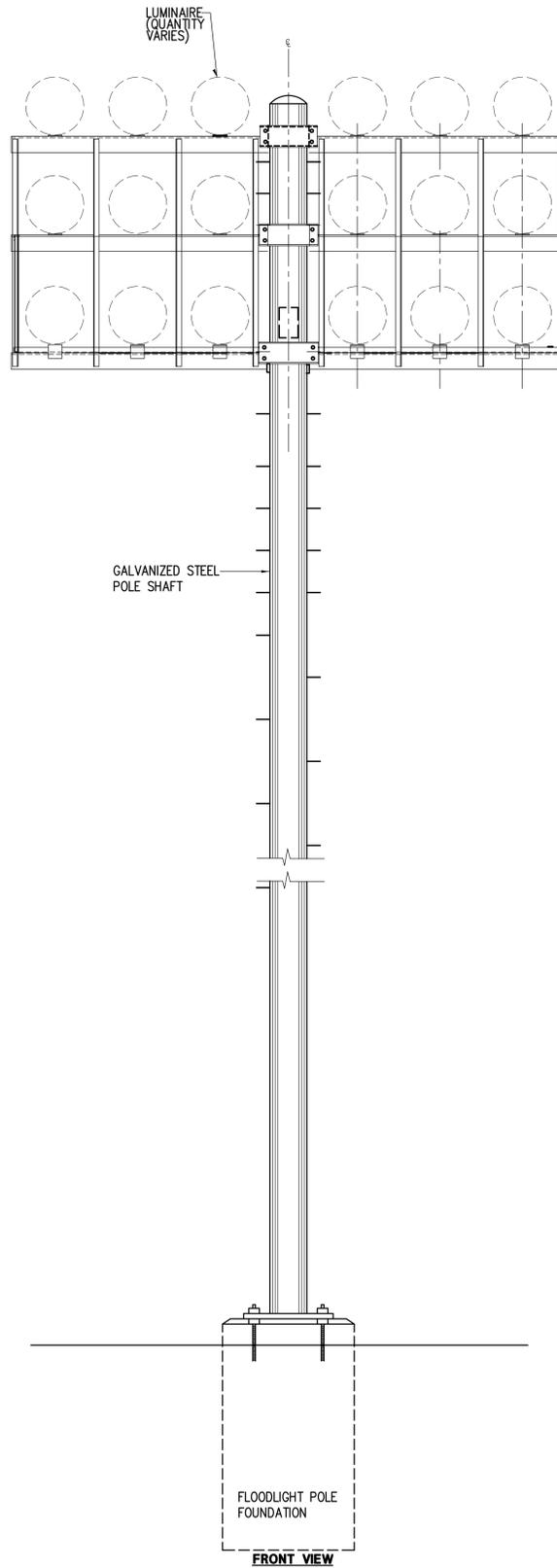
SOURCE: BENNETT ENGINEERS, INC.



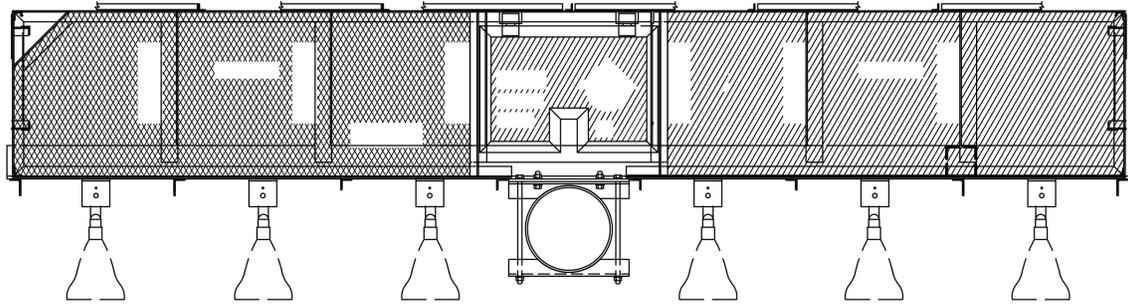
FIGURE 4: ELECTRICAL SITE PLAN



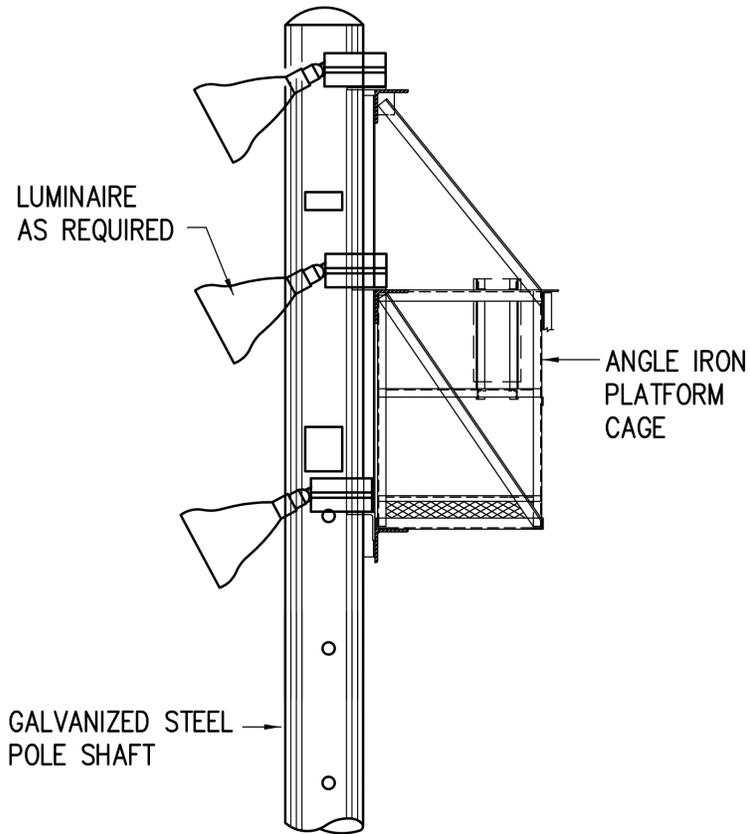
**FIGURE 5: LIGHT FIXTURE ELEVATION**



**FIGURE 6: LIGHT FIXTURE TOP AND SIDE**



**POLE TOP ORIENTATION**



**SECTION ELEVATION**

**SECTION THREE**  
**DESCRIPTION OF ENVIRONMENT, ANTICIPATED IMPACTS**  
**AND MITIGATION MEASURES**

**3.1 ENVIRONMENTAL SETTING**

The project site is located in a large multi-purpose district park owned and operated by the City and County of Honolulu. The park represents the largest active park in the area and is heavily utilized during both day and evening hours. The park is particularly heavily used during evening hours when organized adult league softball play is conducted. Because demand for this facility is constant, and due to the fact that the existing softball diamond is undersized for the current level of play, the softball field is being considered for expansion to allow for safer play.

Other portions of the district park contain a swimming pool, tennis courts, additional baseball/softball fields and multipurpose grass areas. The facility also includes a district park office and meeting facility. The primary off-street parking for the park complex is located off Kainalu Drive.

The park is characterized by open space and landscaping consisting of a variety of trees along the park perimeter.

**3.2 SURROUNDING USES**

The project site is located off Kailua Road which is a major commercial thoroughfare through Kailua Town. Commercial areas lie directly west and south of the project site, while the Kailua Intermediate School lies directly to the east. Further east lies residential areas. All areas immediately north of the project site are in park use, and further north, across Kainalu Drive lie residential areas.

**3.3 ENVIRONMENTAL CONSIDERATIONS**

**3.3.1 GEOLOGICAL CHARACTERISTICS**

Topography

The project site is essentially flat and has been graded and grassed to serve as a softball field. The unobstructed open space is required for the active use of the field. The field includes safety fencing and bleachers, a comfort station located to the west, and the existing flood light system mounted on wooden poles. Vegetation is limited to the maintained grass playfield and a shade trees located along the perimeter and paved parking lot.

## Climate

The geography of the Kailua District is typically warm and dry in climate. Prevailing tradewinds arrive from the northeast. According to the National Weather Service Honolulu Office, over a period of 30 years, normal monthly high temperatures range from 80 degrees in January to a high of 89 degrees in August for an average of 84 degrees. Normal month low temperatures range from a low of 65 degrees in February and a high of 74 degrees in August for a monthly average of 70 degrees. Precipitation typically ranges from 0.44 inches in August to a high of 3.8 inches in December. The annual average rainfall in Kailua is 70 inches per year.

## USDA Soil Survey Report

The project site is located on soils classified JaC Jaucus Series sand according to the Soil Survey of Islands of Kauai, Oahu, Maui, Molokai, and Lanai, State of Hawaii by the U.S. Department of Agriculture Soil Conservation Service. This soil type is characterized as a single grain, pale brown to very pale brown, sandy soil more than 60-inches deep. Permeability of this soil type is rapid and runoff is very slow to slow. The hazard of water erosion is slight, but wind erosion is possible where vegetation has been removed. This land type is used for pasture, sugarcane, truck crops and urban development.

### **3.3.2 WATER RESOURCES**

#### Hydrologic Hazards and Resources

According to Panel 150001 0090 C of the Federal Emergency Management Agency Flood Insurance Rate Map, the project site is located in Zone X an area determined to be outside the 500-year flood plain.

#### Tsunami Inundation

The Civil Defense Tsunami Inundation Maps indicate that the project site is not located in an area vulnerable to tsunami inundation (Department of Planning and Permitting HOLIS).

#### Special Management Area

The project site is not located within the boundaries of the Special Management Area (SMA) Map.

### 3.3.3 HISTORICAL AND ARCHAEOLOGICAL ASSESSMENT

The project site has been in active park use since throughout the development of Kailua Town. As such, the project area has been heavily used and modified throughout its existence. No surface artifacts are located on the site however the possibility of subsurface artifacts exist. To address this issue, an archaeological monitoring plan has been prepared for the proposed action by Pacific Consulting Services Inc. The report is summarized below and is attached as Appendix A. In the event that any artifacts are uncovered during the limited electrical trenching and light pole excavation, all work will cease and the Department of Land and Natural Resources State Historic Preservation Office will be notified.

#### Historic and Recent Land Use History

At the time of the Māhele in the mid-19<sup>th</sup> century, approximately 170 claims were made before the Board of Commissioners to Quiet Land Titles in Kailua. By the beginning of the 20<sup>th</sup> century, Kaneohe Ranch owned much of Kailua which, until the mid-20<sup>th</sup> century, remained a center of commercial agriculture. After the Māhele, rice cultivation dominated agricultural activities which included truck farming of taro and other food crops. In the early 20<sup>th</sup> century, the Hawaiian Copra Company was established on land leased from J. B. Castle, between Oneawa and Kalaheo Streets. What became known as Coconut Grove had up to 130,000 coconut trees in production at its peak, but this commercial venture had failed by 1916. Subdivision of the Coconut Grove area for residential purposes began in the mid-1920s; residential development in Kailua increased significantly after the activation of the Kaneohe Marine Corps Air Station in 1952. Since the 1950s, Kailua town has maintained its small town atmosphere and remains a largely residential community.

#### Previous Archaeological Studies

There is a long record of archaeological research in the Kailua area, and what follows is an abbreviated list of the main studies and those pertinent to understanding the project area and Table 1 lists these archaeological projects in chronological order.

One of the earliest reports on archaeological sites is that of Gilbert McAllister, in his 1933 work *Archaeology of Oahu*. McAllister identified 16 sites within Kailua ahupua`a, listing eight *heiau* as well as Kawainui and Ka`elepulu ponds. In addition to the first reports documenting burial finds (discussed in more detail, below), the next series of investigations date to the 1970s and 1980s, when work done for local and federal government agencies focused on Kawainui Marsh, and public works construction of sanitary facilities and roadways.

In the 1990s and 2000s, research continued at Kawainui Marsh and related areas such as Hamakua Marsh, with additional investigations focused on environmental and floral changes occurring over time. Additional research focused on historic commercial agriculture with Creed's documentation of the growth and development of the extensive Waimanalo Irrigation System. A large study of the middle Maunawili Valley resulted in a comprehensive report on the major habitation and agricultural site complexes in the

area as well as the historic 19<sup>th</sup> century settlement associated with the Hawaiian monarchy. Archaeological survey and mitigation work continued to take place in association with various public and private works construction projects.

#### Previous Burial Finds

As shown in Table 2 of Appendix A, a general trend that persists even today is the occurrence of inadvertent finds – burials encountered during the course of construction or other ground-disturbing activity, in both public and private projects.

#### Monitoring Scope of Work

- (1) Anticipated Finds: In view of the prior archaeological work and findings discussed above, it is anticipated that human burials and subsurface cultural layers may be present within one or more portions of the project area. Possible site types within or near the project area may include remnants of walls, alignments or foundations, and midden or trash pits.
- (2) Extent of Monitoring: The archaeologists(s) will conduct on-site monitoring of all ground disturbing activities. Activities to be monitored will include the excavations for 6 new light poles, 7 handholes, conduit trenches, an electrical metering enclosure, a concrete pad-mounted transformer, and a walkway. Concrete foundations for light poles will be excavated via auger to depths of approximately 5.2 m (or 17 ft) and measuring 1.4 m (or 4 ft 6 in) in diameter. Handholes will be excavated between 0.6 m – 1.5 m (or 2 ft – 5 ft) wide x 0.9 m (or 36 in) deep. Conduit trenches will be excavated approximately 0.6 m (or 24 in) wide x 0.9 m (or 36 in) deep. The electrical metering enclosure measures 1.2 m x 0.4 m (or 4 ft x 15 in) wide. The concrete pad for the transformer measures 2.3 m x 2.4 m (or 7 ft 6 in x 8 ft) wide. The electrical metering enclosure and the concrete pad for the transformer will be excavated to depths of approximately 0.9 m (or 36 in). The walkway measures 1.2 m (or 4 ft) wide and will be excavated to roughly 0.3 m (or 12 in) deep.
- (3) Treatment of remains encountered: If any archaeological materials are encountered during the monitoring of construction of ground-disturbing activities, work will be stopped immediately in that area, and the archaeologist will notify SHPD/DLNR of the nature of the discovery. If an intact cultural layer, living surface, structural components (e.g., foundations), archaeological subsurface features (e.g., hearths, pits, postholes, etc.), artifacts, charcoal or midden deposits or trash pits are encountered, then the following actions will be taken:
  - Selected, sorted charcoal samples will be collected for the possibility of radiocarbon analysis (particularly if the charcoal appears in a prehistoric context).
  - Bulk samples of midden material will be collected.
  - All prehistoric artifacts will be collected.
  - All historic artifacts will be collected unless large trash or refuse pits are encountered in which case only diagnostic samples will be taken.
  - Standard documentation will be carried out, including scale maps, profiles, photographs, detailed soil and provenience descriptions, and interpretation.

### **3.3.4 CULTURAL IMPACT**

The proposed project has been in active park use for most of the twentieth century serves as a significant community asset. As such, it is a crucial part of the social fabric of the community. Improvements to the park such as the proposed lighting system will enhance the use of the park. Historically, the site does not affect any native cultural practices nor will the replacement of the lighting system curtail any future cultural practices.

### **3.3.5 TRAFFIC CONDITIONS**

The proposed action will not have any impact on traffic conditions. The site is not located on a street nor are the improvements expected to have any direct impact on traffic conditions. During the construction phase, minor traffic disruption may occur and construction vehicles are mobilized to the project site. Because the field will not be available during construction periods, a small decrease may be experienced. Upon completion of the project, no traffic impacts are anticipated.

### **3.3.6 AIR QUALITY**

No impact on air quality will result from the implementation of the project however during the construction period, minor air quality impacts from fugitive dust may occur. This can be mitigated by the use of BMPs such as dust screening or watering during excavation.

### **3.3.7 NOISE ENVIRONMENT**

No impact on the noise environment will result from the implementation of the project however during the construction period, some noise from construction equipment may occur. All work will be conducted during Department of Health construction hour standards.

### **3.3.8 BIOLOGICAL CHARACTERISTICS**

#### **3.3.8.1 FLORA**

The project lot is presently covered with a maintained grass field. Assorted ornamental trees are located along the property line, outside of the backstop fence, and along the parking lot. No trees will be removed or relocated.

#### **3.3.8.2 FAUNA**

The site does not serve as a wildlife habitat although avifauna, feral cats, dogs and rodents may be found on-site.

### **3.3.9 INFRASTRUCTURE AND UTILITIES**

The proposed improvements are readily serviced by existing utilities located in the immediate vicinity. New electrical service equipment will be required and are included within the scope of improvements. Electrical power to the project site is presently available.

#### **3.3.9.1 POTABLE WATER**

The project will not affect water supply or demand.

#### **3.3.9.2 STORMWATER**

The site is presently naturally drained. The proposed project will be required to control drainage according to prevailing drainage regulations. Both during and after construction, the project will observe Best Management Practices (BMP) in accordance with the City's Rules Relating to Storm Drainage Standards.

#### **3.3.9.3 WASTEWATER**

The project will not affect wastewater demand.

#### **3.3.9.4 SOLID WASTE**

The project will not have any long-term impact on solid waste collection. Materials removed during the demolition phase will be removed by the contractor and disposed of in an approved disposal site.

#### **3.3.9.5 TELEPHONE AND ELECTRICAL SERVICES**

Telephone and electrical services are available to the site however telephone service will not be affected by the proposed project. Coordination with the local electric service providers will be maintained during the design and construction phases.

### **3.3.10 PUBLIC FACILITIES**

The proposed project is considered a public facility and the proposed action is being implemented to enhance this important facility. Active recreation fields are heavily used and demand for these facilities extend beyond daylight hours. To meet this demand, the proposed improvements will create a safer and more useable softball field that will serve a broader range of park users.

### **3.3.10.1 FIRE PROTECTION AND EMERGENCY MEDICAL SERVICE**

Kailua Fire Station Number 18 provides fire protection service to the project area as well as emergency medical service. This station consists of one engine and one quint vehicles. The station is located at 211 Kuulei Road approximately a quarter mile from the project site. Response time to the site is less than three minutes.

An advance life support ambulance unit is also located at the Kailua Fire Station. Response time is also less than three minutes. The nearest emergency medical facility is located at Castle Medical Center.

### **3.3.10.2 POLICE SERVICE**

Police service is provided by the Honolulu Police Department (HPD) District 4, Sector 2. The Kailua Substation is located at 219 Kuulei Road. The area is served by beat patrols and the expected response time to the site is less than 5 minutes.

## **3.4 RELATIONSHIP TO PLANS, CODES AND ORDINANCES**

The proposed project is located within the P-2 Preservation zone as is typical for municipal parks. Portions of the project parcel are also zoned R-5 and R-10.

The State Land Use Commission Boundary Maps identify the project site as being within the Urban area. This is consistent with the surrounding uses that include commercial uses and residential development.

From the City and County of Honolulu planning perspective, the project is located within the jurisdiction of the Koolaupoko Sustainable Communities Plan. Under the Revised Ordinances of the City and County of Honolulu, Section 24, Article 6, objectives and guidelines have been formulated for the development and growth within the Koolaupoko area. The Kailua District Park Lighting System project conforms with the planning principals of this plan as stated in subsection 2.1.2.

The planning principles call for the provision of passive and active open spaces including community-based parks, and the promotion of accessibility of recreational open space. To this end, a new walk way will be constructed to facilitate access to the light switch equipment and for the benefit of park users. Furthermore, subsection 2.1.3.6 states that community-based parks should provide active recreation space in the form of playfields and gyms.

## **3.5 PROBABLE IMPACT ON THE ENVIRONMENT**

The proposed action represents an extremely small impact on the physical environment. The proposed project consists of the replacement of an existing lighting system with an

improved system that will allow for an expanded ball field, resulting in safer playing conditions. Minor impacts will occur during construction but these impacts are typical of any type of construction and are short-term in duration

The project will not result in any significant visual view impact however the improved lighting will greatly benefit park users by providing enhanced lighting, safety and ultimately an enlarged field of play. The use of steel poles will also minimize maintenance requirements.

The new lighting system will provide greater illumination but the light fixtures selected will be internally and externally shielded to minimize excessive light spillage beyond the area to be illuminated.

Minor trenching and light pole excavation will be required. An archaeological monitoring plan has been prepared to ensure that in the event any artifacts are uncovered, an approved plan of action will be followed.

### **3.6 ADVERSE IMPACTS WHICH CANNOT BE AVOIDED**

Adverse impacts that cannot be avoided are generally related to short-term construction impacts. These impacts can be minimized by sound construction practices, Best Management Practices (BMPs) adherence to applicable construction regulations as prescribed by the Department of Health, and coordination with applicable County agencies.

Increases in traffic and air and noise pollution will occur as is expected of any development of this nature. These impacts are relatively small and do not have significant impact on the surrounding environment. No long-term traffic, air or noise impacts are anticipated from the proposed action.

The project is not anticipated to have any long-term adverse impacts and is being implemented as a health and safety improvement. While the field will not be available during the construction period, this loss of use is off-set by the long-term improvements and usability of the improved park for a significant time into the future.

### **3.7 ALTERNATIVES TO THE PROPOSED ACTION**

No other use alternatives beyond the non-action alternative were considered for this project. Non-action was considered and rejected since no benefit to the community would be provided and continued use of the current system would leave the field inadequately lit and unsuitable for future expansion. If the field is not supported for expansion, the level of current play can be affected and could result in a less safe play environment which is inadequately illuminated. The use of wood poles is also subject to additional maintenance and replacement. The steel poles planned for use in the project

will decrease maintenance requirements and will provide a foundation for a modern lighting system.

### **3.8 MITIGATION MEASURES**

Long-term impacts resulting from the proposed improvements are expected to be minimal or non-existent based upon the subject environmental assessment. Long-term traffic, air and noise impacts are not expected to change significantly after improvements are completed. Short-term construction related noise and air quality impact mitigation measures include general good housekeeping practices and scheduled maintenance to avoid a prolonged construction period. The contractor will be directed to use best management practices (BMP) wherever applicable.

### **3.9 IRREVERSIBLE AND IRRETRIEVABLE COMMITMENT OF RESOURCES**

Implementation of the proposed project will result in the irreversible and ir retrievable commitment of resources in the use of non-recyclable energy expenditure and labor. Materials used for new construction may have salvage value; however, it is unlikely that such efforts will be cost-effective. The expenditure of these resources is offset by gains in construction-related wages, increased tax base and tertiary spending.

**SECTION FOUR  
NECESSARY PERMITS AND APPROVALS**

Permits and approvals that may be required are contingent upon the actual design of the proposed project. All other permits and approvals are generally ministerial in nature. Permits listed below represent a general list that represents permits and approvals that will be required by the proposed project.

County Agencies

<u>Permit or Approval</u>	<u>Approving Agency</u>
Building Permits	Dept. of Planning and Permitting
Grading, Grubbing, Stockpiling, Trenching	Dept. of Planning and Permitting

**SECTION FIVE**  
**FINDINGS AND REASONS SUPPORTING**  
**FINDING OF NO SIGNIFICANT IMPACT**

As stated in Section 11-200-12, EIS Rules, Significance Criteria: in determining whether an action may have a significant effect on the environment, every phase of a proposed action shall be considered. The expected consequences of an action, both primary and secondary, and the cumulative as well as the short-term and long-term effects must be assessed in determining if an action shall have significant effect on the environment. Each of the significance criteria is listed below and is followed by the means of compliance or conflict (if extant).

- Involves an irrevocable commitment to the loss or destruction of any natural or cultural resource.

The proposed action will occur on an existing developed site and will not impact any topographical resources. Subsurface archaeological artifacts are a possibility; therefore, an archaeological monitoring plan has been conducted with no significant findings. In the event that any archaeological remains are uncovered during the course of construction, all work will stop and the State Historic Preservation Office will be contacted for appropriate action.

- Curtails the range of beneficial uses of the environment.

The proposed use will not result in a significant change from its existing use but will create an improved recreation area that is safely and adequately illuminated, and will allow for the expansion of the softball field from 200-feet to 300-feet resulting in better and safer levels of play.

- Conflicts with the State's long-term goals or guidelines as expressed in Chapter 344, HRS, and any revisions thereof and amendments thereto, court decisions, or executive orders.

The proposed action is consistent with the goals and guidelines expressed in Chapter 344, Hawaii Revised Statutes. The proposed action is triggered by the use of County lands and funds. The subject Environmental Assessment has been developed in compliance with the Chapter 343.

- Substantially affects the economic or social welfare of the community or state.

The proposed action will make a positive contribution to the welfare and economy of the State and City by providing desirable and needed recreational improvements to the City and County of Honolulu. The facility will also contribute positively to the community through the use of goods and services in the area, through construction related employment, and through secondary and tertiary spending and taxes.

- Substantially affects public health.

The proposed improvements are expected to have positive contribution to public health by creating an improved recreational environment. No other recreational resources will be adversely impacted by the project, nor will the project increase any undesirable environmental impacts.

- Involves substantial or adverse secondary impacts, such as population changes or effects on public facilities.

The proposed action will not increase any adverse primary or secondary impacts, nor will the project have any effect on population change. The project will affect the Kailua District Park positively by providing a safe and improved softball field.

- Involves a substantial degradation of environmental quality.

The proposed action will not degrade environmental quality. Impacts associated with the project, such as traffic impact and air and noise quality have been assessed to be minimal. The project is located in a highly urban environment that is expected to be heavily developed in the future. In that respect, the project is consistent with the overall land use of the district.

- Is individually limited but cumulatively has a considerable effect upon the environment or involves a commitment for larger actions.

The proposed action is not a first phase of, or related to, any larger action. The cumulative effect of the project is disclosed in this document and does not involve any planned future actions that will cumulatively impact the environment. The proposed action will ultimately result in a larger play field and expanded lighting however funding for the field expansion and two of the six proposed light poles are not funded at this time.

- Substantially affects rare, threatened or endangered species, or their habitats.

The proposed action will not affect any rare, threatened or endangered species of flora or fauna, nor is it known to be near or adjacent to any known wildlife sanctuaries.

- Detrimentially affect air or water quality or ambient noise levels.

The proposed action will not impact air or water quality. Noise levels are not expected to change.

Minimal impacts on air quality and noise are anticipated during construction, but will be limited by normal construction practices and Department of Health construction mitigation standards.

- Affects or is likely to suffer damage by being located in an environmentally sensitive area such as a flood plain, tsunami zone, beach erosion prone area, geologically hazardous land, estuary, fresh water, or coastal waters.

The project will not have any impact on an environmentally sensitive area.

- Substantially affects scenic vistas and viewplanes identified in County or State plans or studies.

The proposed action will not affect any scenic vistas or significant viewplanes. The project is located in a highly urban environment.

- Require substantial energy consumption.

The project will increase electrical energy consumption over the existing use however this minor increase in energy demand will be offset by significantly improved levels of lighting and resultant safer play during evening hours.

Based on the above stated criteria, the proposed Kailua District Park Softball Field Lighting System Replacement project will not have a significant effect on the environment. As such, a Finding of No Significant Impact (FONSI) is anticipated for the project.

**SECTION SIX**  
**LIST OF PARTIES CONSULTED PRIOR TO THE**  
**DEVELOPMENT OF THE DRAFT ENVIRONMENTAL ASSESSMENT**

Agencies with ministerial or specific interests regarding the proposed project were contacted for their early comments regarding the proposed project. Parties contacted are listed below.

**State Agencies**

Department of Land and Natural Resources  
Department of Land and Natural Resources  
State Historic Preservation Officer

**County Agencies**

Department of Design and Construction  
Department of Parks and Recreation  
Department of Planning and Permitting  
Emergency Medical Services Division  
Fire Department  
Police Department

**Public Utilities**

Hawaiian Electric Company

# APPENDICES