

ALA MOANA WASTEWATER PUMP STATION
FORCE MAIN #3

DRAFT
ENVIRONMENTAL ASSESSMENT

Prepared for:
CITY AND COUNTY OF HONOLULU
Department of Design and Construction
Wastewater Division

September 2009

Prepared by:
FUKUNAGA AND ASSOCIATES, INC.
1357 Kapiolani Boulevard, Suite 1530
Honolulu, Hawaii 96814

PROJECT SUMMARY

Project Name: Ala Moana Wastewater Pump Station Force Main #3

Applicant: City and County of Honolulu
Department of Design and Construction
650 South King St
Honolulu, HI 96813

Agent: Fukunaga & Associates, Inc.
1357 Kapiolani Blvd, Suite 1530
Honolulu, HI 96814
Contact: Mr. Wynn Miyamoto
Phone: (808) 944-1821, Fax: (808) 946-9339

Approving Agency: City and County of Honolulu

Tax Map Key: 2-1-15:23, 2-1-15:09, 1-5-41:05, 1-5-41:06

State Land Use District: Urban

Existing County Zoning: Kakaako Community Development District, P-2, I-3

Development Plan Land Use Designation: Major Parks and Open Space, Industrial, District Commercial

Special Designation: Special Management Area (SMA), Shoreline Setback

Anticipated Determination: Finding of No Significant Impact (FONSI)

Preconsultation Parties: Board of Water Supply
City and County of Honolulu
Department of Planning and Permitting
Department of Transportation Services
Aloha Tower Development Corporation
Department of Land and Natural Resources
Department of Health
Clean Air Branch
Clean Water Branch
Environmental Health Administration
Solid and Hazardous Waste Branch
Wastewater Branch
Department of Hawaiian Homelands
Department of Business, Economic Development, & Tourism
Department of Transportation
Highways Division

Harbors Division
Hawaii Community Development Association
Office of Hawaiian Affairs
Office of Planning
University of Hawaii, Manoa
 Environmental Research Center
 Water Resource Research Center
 Marine Center
USDA Natural Resource Conservation Service
U.S. Department of Interior, Fish and Wildlife Service
U.S. Army Corps of Engineers
U.S. Coast Guard
Gas Company
Hawaiian Electrical Company
Hawaiian Telcom
Aloha Cargo Transport
Hawaii Stevedores, Inc.
Inchcape Shipping
Matson Navigation Company, Inc.

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SECTION 1

Introduction

1.1 BACKGROUND

The City and County of Honolulu (City) proposes to install a new dual 60-inch force main to convey wastewater from the Ala Moana Wastewater Pump Station to the Sand Island Wastewater Treatment Plant.

An environmental review is required, pursuant to Chapter 343, Hawaii Revised Statutes. The triggers are as follows:

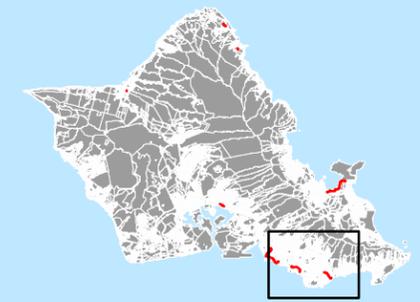
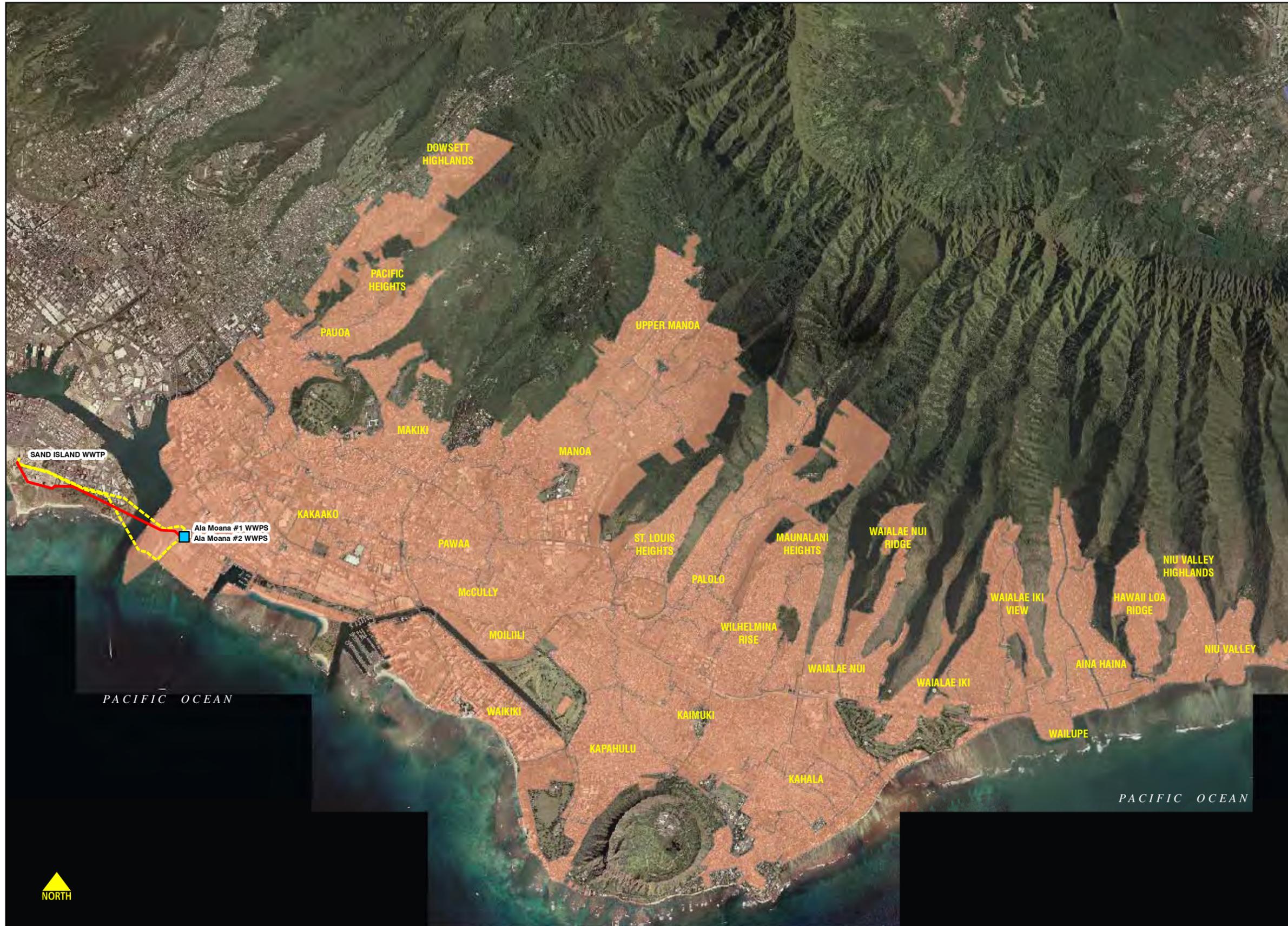
- Use of state lands and county funds;
- Use of land classified as Conservation District; and
- Use within the Special Management Area.

1.2 EXISTING FACILITIES AND OPERATIONS

The Ala Moana wastewater pump station (WWPS) and force main (FM) system receives wastewater generated by the area encompassing Niu Valley to Nuuanu and Kakaako, serving approximately half of the population of the island of Oahu; and conveys the wastewater to the Sand Island Wastewater Treatment Plant (WWTP). This is the largest wastewater pumping system on the island. **Figure 1-1** depicts the service area and facility locations. The average daily wastewater flow rate to the Ala Moana WWPS and FM system is approximately 48 million gallons per day (mgd). During rainy periods, flow has increased above 120 mgd.

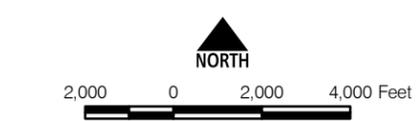
The existing Ala Moana WWPS and FM system consists of two pump stations and two force mains, which operate in parallel. Ala Moana WWPS #1 and FM #1 were completed in 1952; FM #1 ranges in size from 54-inches to 78-inches with a total length of 8,165 feet. Ala Moana WWPS #2 and FM #2 were completed in 1983; FM #2 ranges in size from 66-inches to 78-inches with a total length of 9,299 feet. The WWPSs recently were modified and WWPS #1 and #2 have capacities of 66 mgd and 103 mgd, respectively, totaling 169 mgd with one backup pump.

The WWPS #2 FM #2 System is the primary system under normal dry weather operating conditions. The WWPS #1 FM #1 System serves as a backup to the WWPS #2 FM #2 System or is placed in operation during heavy rain storms or during shutdown of the WWPS #2 FM #2 System. WWPS #1 can pump through FM #2; and WWPS #2 can pump through FM #1, if necessary. However, no more than two pumps can be in operation when WWPS #2 pumps through FM #1, due to FM #1 pressure rating limitation. **Figure 1-2** shows a layout of the existing WWPS site.



ISLAND OF OAHU

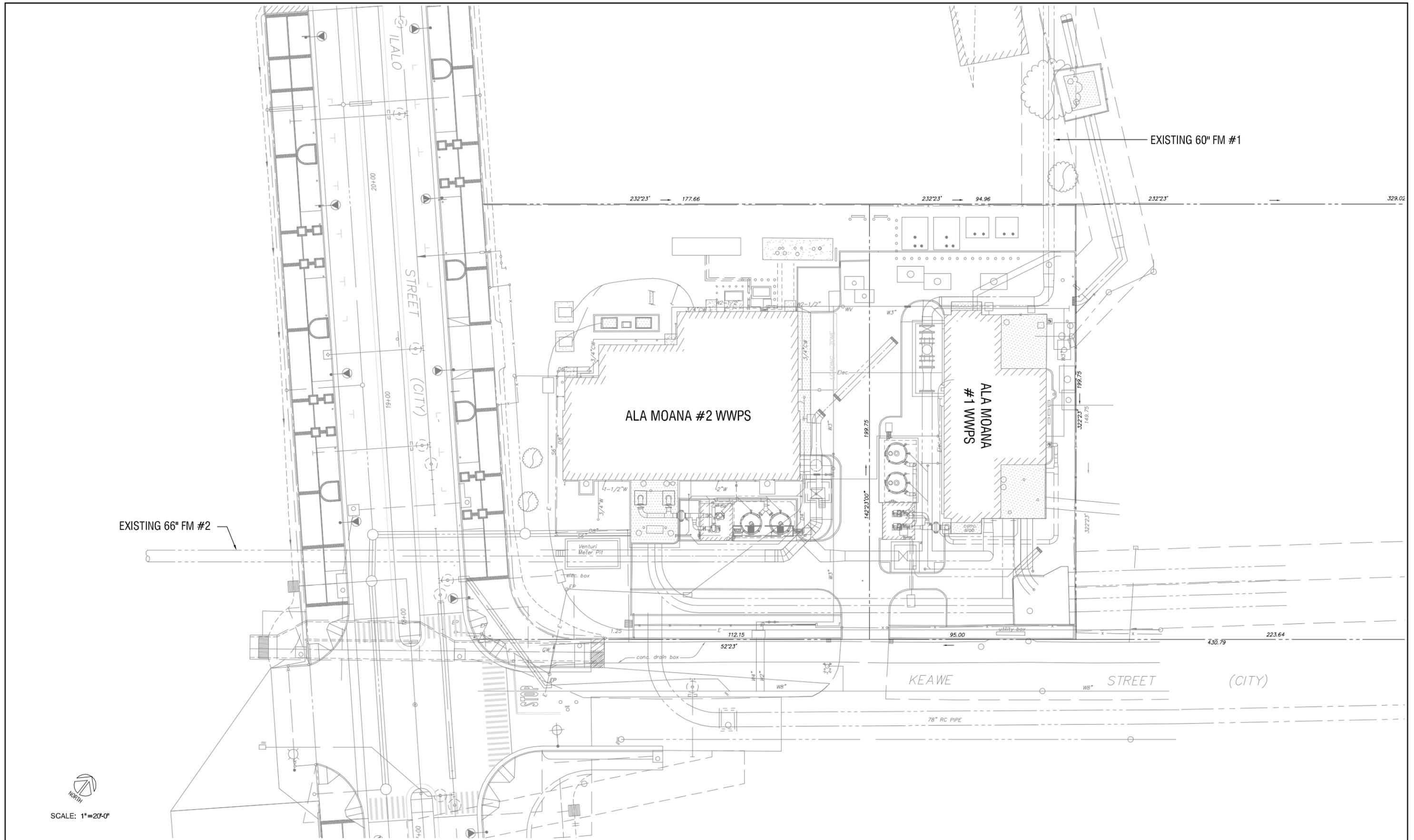
- LEGEND:**
- Ala Moana WWPS Service Area
 - Existing Force Main
 - Proposed Force Main
 - Existing Wastewater Pump Stations



Ala Moana WWPS Service Area

FIGURE 1-1

Ala Moana Pump Station Force Main #3



Existing Ala Moana WWPS Site Plan

FIGURE 1-2
Ala Moana Pump Station Force Main #3

1.3 NEED FOR PROJECT

The City has a Force Main Condition Assessment Program, which provides an assessment of the wastewater force mains; and develops a criticality and risk ranking of the facilities to assist in the prioritizing and scheduling of future activities to improve the collection system performance and reliability. The criticality of force mains is defined in terms of the consequence of failure, specific impacts to the public and the environment; and the risk of that failure occurring, which is based on a comprehensive review of various factors.

The Force Main Condition Assessment Program deemed Ala Moana FM #1 and #2 as “critical”. Ala Moana FM #1 and #2 are very large; carry high sewage flows; are constructed of reinforced concrete, which is generally susceptible to corrosion; are of substantial length; convey wastewater from an extensive service area; are old; and have limited backup capacity. Furthermore, the force mains cross a water body, which is vital to the economy. Failure of the force mains, especially within Honolulu Harbor, would have significant impacts on the public and the environment.

Sufficient capacity, as well as backup capacity, are important for any wastewater pumping system, but are paramount for the magnitude of the Ala Moana system. If there is a failure in FM #2, FM #1 can only convey 66 mgd to the WWTP; and if there is a substantial rain event, FM #1 may not be able to accommodate all of the flow necessary, which could result in a sewage spill. If FM #1 fails, FM #2 can convey up to 157 mgd. Neither of the force mains alone can transmit the 2020 peak wet weather design flow of 189 mgd.

In May 2007, the City agreed to a Stipulated Order (CV 07-00235 HG-KSC) with the Federal Environmental Protection Agency (EPA) and the State Department of Health (DOH) requiring the City to install a backup force main for the Ala Moana WWPS. The order also requires the City to execute a construction contract for the new FM #3 by July 31, 2012, and complete construction by December 31, 2014.

SECTION 2 Project Description

2.1 PROJECT DESCRIPTION

Ala Moana FM #3 will be sized for a 50-year service life to the year 2065. The peak wet weather wastewater design flow rate is estimated to be in the range of 210 to 225 mgd. FM #3 will consist of two 60-inch parallel pipes. The proposed configuration for FM #3 will increase the Ala Moana force main system capacity to convey the 2065 peak wet weather design flow, and will also provide essential backup capacity and flexibility to allow shutdown of any of the force mains for inspection, maintenance and repair work. If any one of the dual FM #3 or FM #2 must be shut down (FM #1 remains as backup), the remaining two force mains would be capable of conveying the 2065 peak wet weather design flow.

2.2 ALTERNATIVE ROUTES

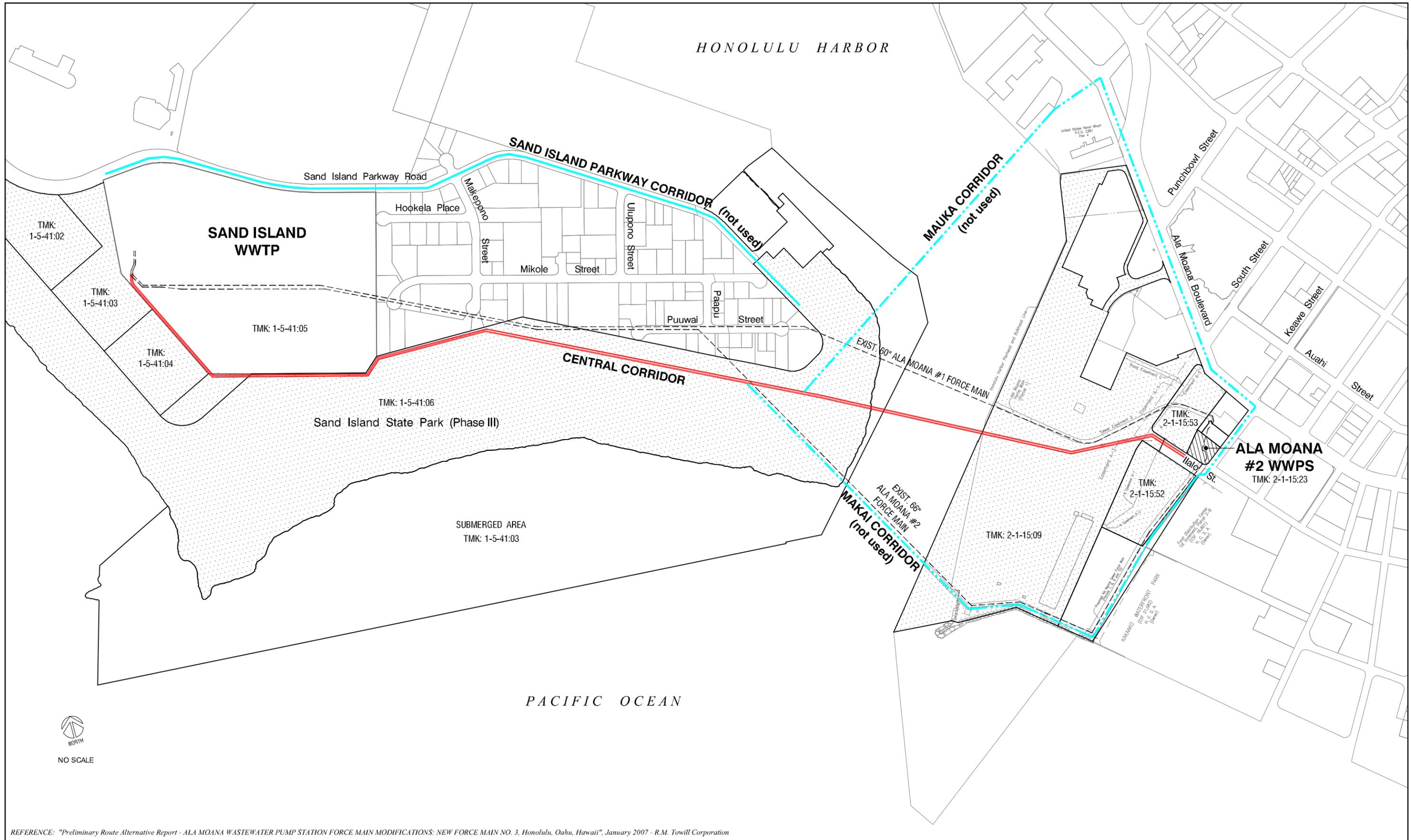
Alternative routes, as shown on **Figure 2-1**, were evaluated for the proposed Ala Moana FM #3: three alternatives for the harbor crossing and two on Sand Island. The alternatives evaluated for the harbor crossing from Ala Moana WWPS to the Sand Island Recreational Area (SIRA) include the Mauka (mountainside), Makai (oceanside), and Central Corridors. The two alternatives on Sand Island include the Sand Island Parkway Corridor and the Sand Island Recreational Area Corridor.

2.2.1 Harbor Crossing

Mauka Corridor

The Mauka Corridor exits the WWPS on the east side, runs Mauka (North) along Keawe Street, turns left and goes Ewa (West) on Ala Moana Boulevard until the parking lot between Piers 5 and 6, where it crosses the parking lot and harbor to the Sand Island Recreational Area.

This alternative is the longest and the most expensive. Both the State Department of Transportation, Harbors Division (DOT-Harbors) and Highways Division have significant concerns with the Mauka Corridor. DOT-Harbors is concerned with potential restriction of future development in the parking lot between Piers 5 and 6. The Highways Division is concerned with the traffic impacts that would be caused by construction along Ala Moana Boulevard. This alternative will directly affect approximately 12 bus routes and will potentially affect rush hour traffic. Sections along Ala Moana Boulevard and Nimitz Highway already operate at a level of service of E or F. Construction within this corridor will likely have a negative impact on traffic. The easement required for the force main could potentially interfere with the future proposed rail system. Furthermore, the Mauka Corridor has the longest harbor crossing, and therefore, the highest associated construction risk. There are also several utilities along Ala Moana Boulevard, included a proposed HECO ductline. Consequently, the Mauka Corridor is not a preferred route.



REFERENCE: "Preliminary Route Alternative Report - ALA MOANA WASTEWATER PUMP STATION FORCE MAIN MODIFICATIONS: NEW FORCE MAIN NO. 3, Honolulu, Oahu, Hawaii", January 2007 - R.M. Towill Corporation

Ala Moana Force Main #3 - Alternate Routes

Makai Corridor

The Makai Corridor parallels the Ala Moana FM #2 alignment. This alternative exits the WWPS on the east side, runs Makai (south) along Keawe Street to the Honolulu Harbor entrance, then goes Ewa (West) along the coast and crosses the harbor to the Sand Island Recreational Area. The Makai Corridor alternative is 1,500 feet longer than the Central Corridor alternative. This alternative requires construction adjacent to FM #2 within a narrow corridor along the existing drainage canal and shoreline. Construction would be difficult due to the limited space, uncertain ground conditions, and risk of damage to FM #2. This alternative does directly impact bus routes, is not located in an area of existing traffic problems, and will not affect the future rail alignment. The harbor crossing is longer than that of the Central Corridor and would require a deep construction shaft in the harbor waters. Although this alternative is preferred by DOT-Harbors because impacts on their lands would be minimal, this option is not preferred by the City due to the construction risk and higher associated costs.

Central Corridor

The Central Corridor parallels the Ala Moana FM #1 alignment. This alternative exits the WWPS on the Makai (south) side, runs Ewa (West) along Ilalo Street, through Fort Armstrong, and crosses the harbor to the Sand Island Recreational Area.

This alternative does directly impact bus routes, is not located in an area of existing traffic problems, and will not affect the future rail alignment. The Central Corridor alternative is the shortest, most direct, and most cost-effective alternative. Although it is not their preferred route, DOT-Harbors is amenable to the Central Corridor. Shaft sites have been located to minimize disruptions to DOT-Harbors operations. DOT-Harbors has indicated that one of the tenants at Pier 1 is planned to be relocated to Pier 29 when upgrades to Pier 29 have been completed. This work is projected to be completed before construction of Ala Moana Force Main #3. This will free up space within Pier 1 and reduce disruption to operations at Pier 1. The Central Corridor has been aligned to stay out of HCDA property. Therefore, HCDA has no objections to the alignment. In consideration of construction risks and economics, the Central Corridor is preferred. DOT-Harbors concerns will be addressed to their satisfaction in right-of-entry and easement negotiations.

2.2.2 Sand Island

Sand Island Parkway Corridor

Sand Island Parkway is under the jurisdiction of State DOT Highways, and is the main thoroughfare on Sand Island. Construction along this primary access road would likely encounter significant utility conflicts. This alternative does directly impact bus routes, is not located in an area of existing traffic problems, and will not affect the future rail alignment. However, it will negatively affect traffic. A more favorable route is available; therefore, the Sand Island Parkway Corridor alternative is not preferred.

Sand Island Recreational Area Corridor

The Sand Island Recreational Area is a State park. Construction impacts within the area are preferred over the disruption associated with the Sand Island Parkway Corridor alternative. The alignment will follow the property line where possible to minimize impacts on park use. This alternative does not directly impact bus routes, is not located in an area of existing traffic problems, and will not affect the future rail alignment.

A National Park Service (NPS) Land and Water Conservation Fund (LWCF) grant was used to fund improvements to the Sand Island State Recreation Area. Therefore, LWCF conditions apply, specifically that the park must remain available to the public for outdoor recreation. If the park, in whole or in part, is converted to other than public outdoor recreation use, replacement lands must be provided and approved by NPS. Underground utility easements that do not impact the recreational use of the park and are restored to the original surface condition may not trigger a conversion. If restoration exceeds 12 months, NPS must be consulted to determine if a conversion is triggered. The project will not impact recreational use of the park; however, construction will exceed the 12 month limit. NPS has granted the City a 2-year construction period within the park and a utility easement to maintain the force main in the future.

2.3 SELECTED ROUTE

The various alternative routes were assessed and discussed with the affected agencies. The selected route for Ala Moana FM #3 is the Central Corridor and Sand Island Recreational Area Corridor. This route is the shortest and most cost-effective alternative, with the least construction risk and associated disruption to facility operations and traffic.

The proposed force main alignment and related parcel map are shown on **Figures 2-2** and **2-3**. Ala Moana WWPS is on TMK parcels 2-1-15:22 and 23. This land is owned by the State and is leased by the City and County of Honolulu. The force main will exit the Ala Moana WWPS near the intersection of Keawe Street and Ilalo Street and follow Ilalo Street (City ROW) to the intersection with Forrest Avenue. From Ilalo Street, the force main will run through the DOT-Harbors Fort Armstrong container cargo terminal at Pier 1 (TMK 2-1-15:09), and cross Honolulu Harbor. The alignment will traverse the Sand Island State Recreational Area (TMK 1-5-41:6) to the Sand Island WWTP (TMK 1-5-41:5). The proposed alignment avoids HCDA property. The proposed alignment for the force main will be kept close to the alignment of force main #1 to minimize easement widths.

2.4 LAND USE

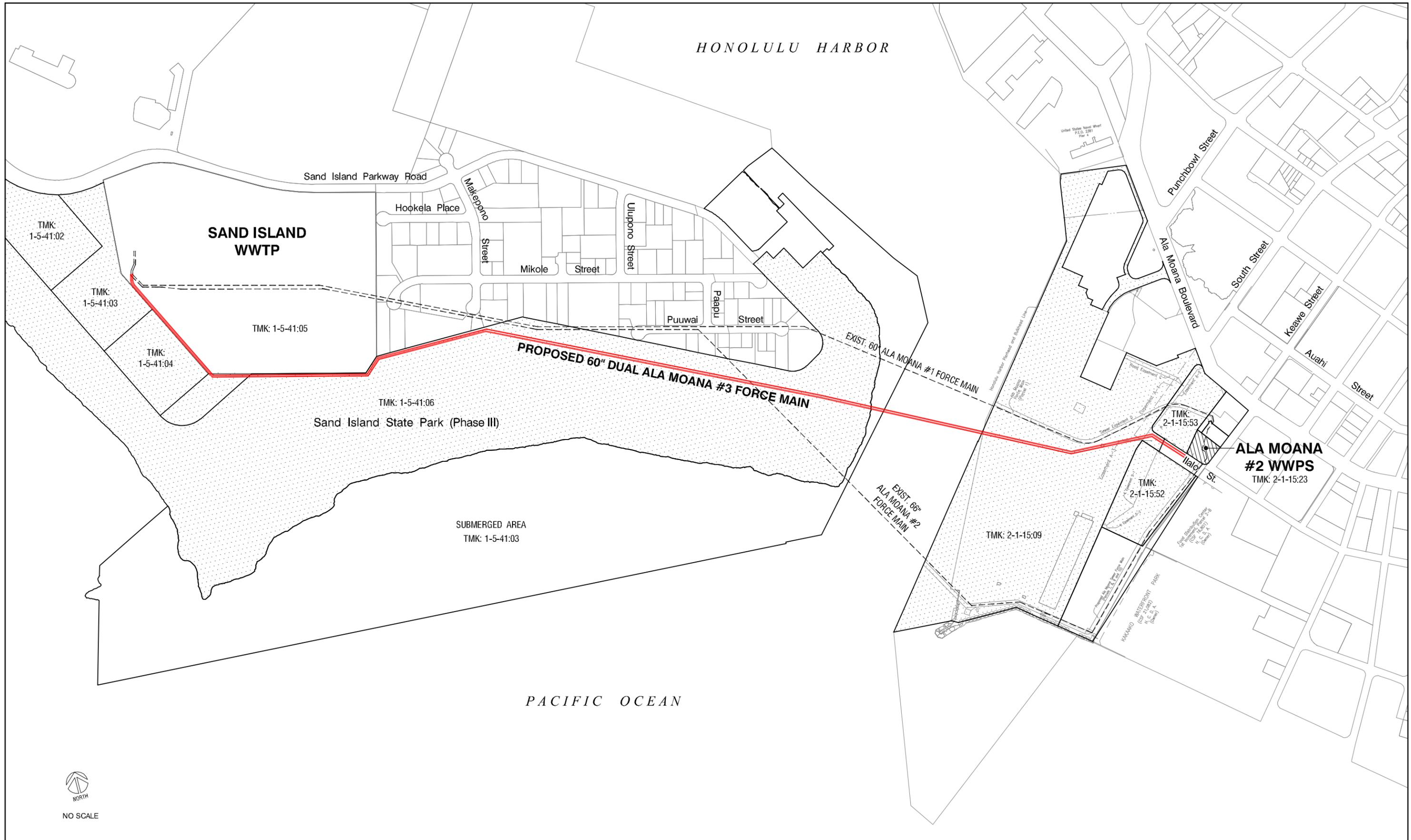
The WWPS side land alignment and harbor crossing, which is about one-third of the proposed force main alignment, is within a highly urbanized area and requires careful consideration.



Ala Moana Force Main #3 Proposed Alignment

FIGURE 2-2

Ala Moana Pump Station Force Main #3



Ala Moana Force Main #3 Proposed Alignment - Parcel Map

Makai Area of the Kakaako Community Development District

The area south of Ala Moana Boulevard to the shore, including Kewalo Basin and west to Forrest Avenue is the Makai Area of the Kakaako Community Development District. This area, depicted on **Figure 2-4**, is under the jurisdiction of the Hawaii Community Development Authority. The WWPS site and Ilalo Street are within the Kaakako Community Development District, and the neighboring parcel TMK 2-1-15:52 will be the future Cancer Research Center of Hawaii site.

Fort Armstrong (Pier 1)

The Fort Armstrong container cargo terminal at Pier 1 is used for overseas containers. Operations are currently limited by the available space, which is near capacity. However, DOT-Harbors anticipates that this will be alleviated because they are working towards moving one of the users by the time FM #3 construction begins.

Honolulu Harbor

According to the *Oahu Commercial Harbors 2020 Master Plan*, “It is said that 80 percent of everything Hawaii uses is imported and that 98.6 percent of these imported goods are shipped by sea. This statement underscores the importance of the port system to the State and its visitors...” The *Harbor Master Plan* further states that, “Honolulu Harbor not only continues to function as the hub of Port Hawaii, receiving, consolidating and distributing practically all overseas cargo shipments, but finds itself catering to passenger and fishing operations and distraught with countless requests for additional accommodations.” Honolulu Harbor is a life string for Hawaii, and is under the jurisdiction of the State of Hawaii Department of Transportation, Harbors Division.

Sand Island State Recreational Area

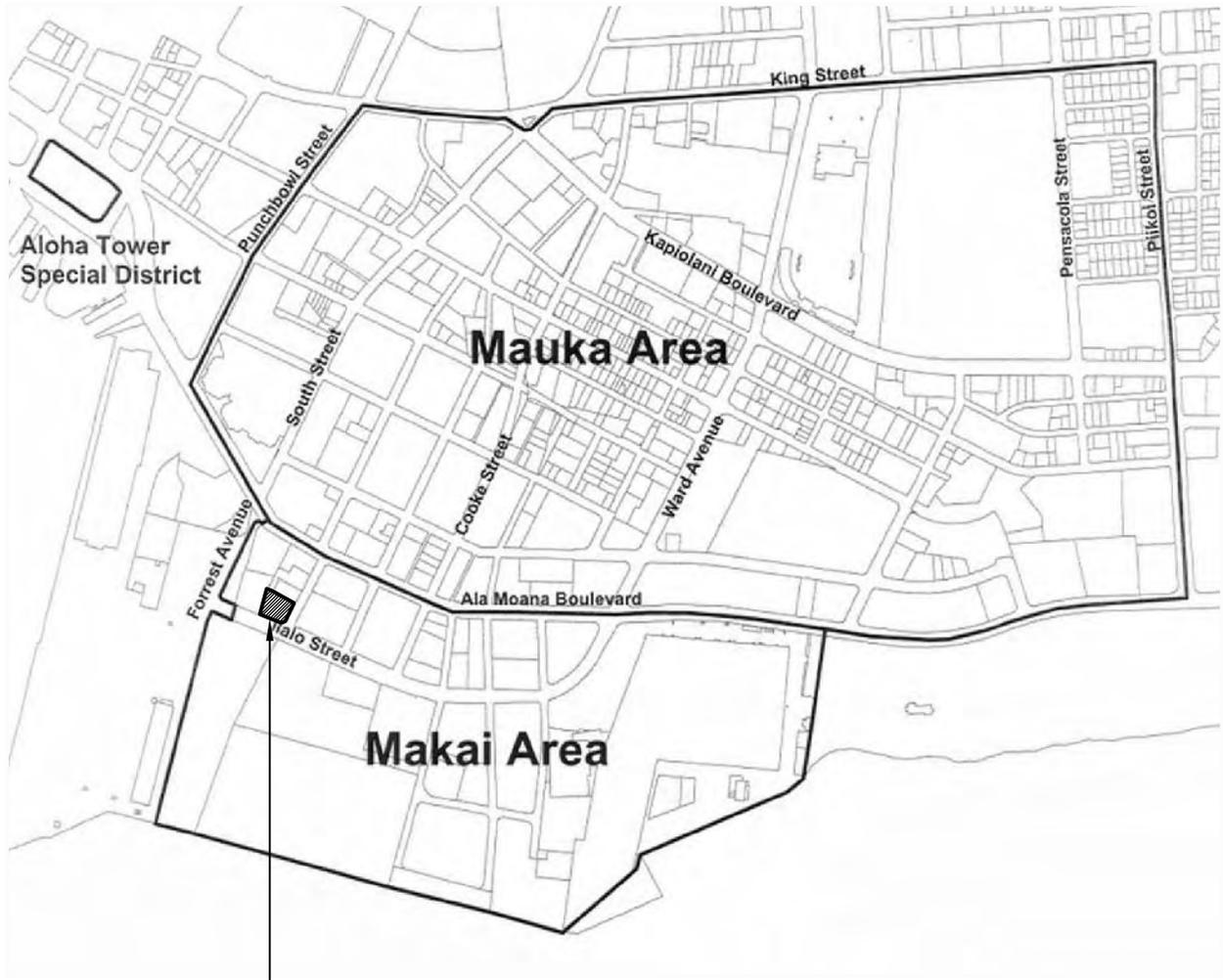
The Sand Island State Recreational Area is under the jurisdiction of the State Department of Land and Natural Resources, and is used for picnicking, camping, pleasure walking, shore fishing and board surfing.

2.5 PROPOSED CONSTRUCTION METHOD

The construction methods for pipeline installation include open trench and trenchless methods. In general, open trench involves trenching from the ground surface, laying the pipe, backfilling, and then restoring the surface. Trenchless methods minimize ground surface disturbance, and require entry and exit pits or shafts at the beginning and end of the pipe segments.

2.5.1 Ala Moana WWPS Portion: Land Alignment and Harbor Crossing

Due to the land use on the Ala Moana WWPS side land alignment and the underwater construction required for the harbor crossing, trenchless construction is the most favorable



EXISTING ALA MOANA WWPS SITE

Kakaako Community Development District - July 2006

FIGURE 2-4

Ala Moana Pump Station Force Main #3

method for this segment of Ala Moana FM #3. The large pipe size required for FM #3 limits the feasible trenchless methods to microtunneling and conventional tunneling.

Microtunneling

Microtunneling is remote controlled pipe jacking using a laser-guided and steerable microtunnel boring machine (MTBM) without the need for man-entry into the pipe. Refer to **Figure 2-5**. A cutting and crusher head is pushed forward by a jacking unit. As the head moves forward, lengths of jacking pipe are pushed behind it to line the bored microtunnel. After installation of each pipe length, the jacking unit is retracted, a new length of pipe is connected to the previously installed pipe, and the jacking unit is reactivated. Excavated material is removed as the cutting head advances. This is accomplished with a slurry system which liquefies the excavated material into a slurry form for pumping to an above ground separation plant where the excavated spoils are removed and dewatered for disposal.

Microtunneling originated in Japan in the 1970's. "Straight" microtunneling has no curves and requires deep jacking and receiving shafts near the desired invert of the pipe. Recent advances in technology allows for curved microtunneling, which is similar to straight microtunneling, but uses more advanced guide and steering systems; and utilizes pipe joints for deflection to curve the pipe. Jacking and receiving shafts for curved microtunneling are not as deep because the pipe can be directed down to the desired invert. However, curved microtunneling is not viable for this project because the soils are too soft and cannot provide the resistance necessary to steer the MTBM.

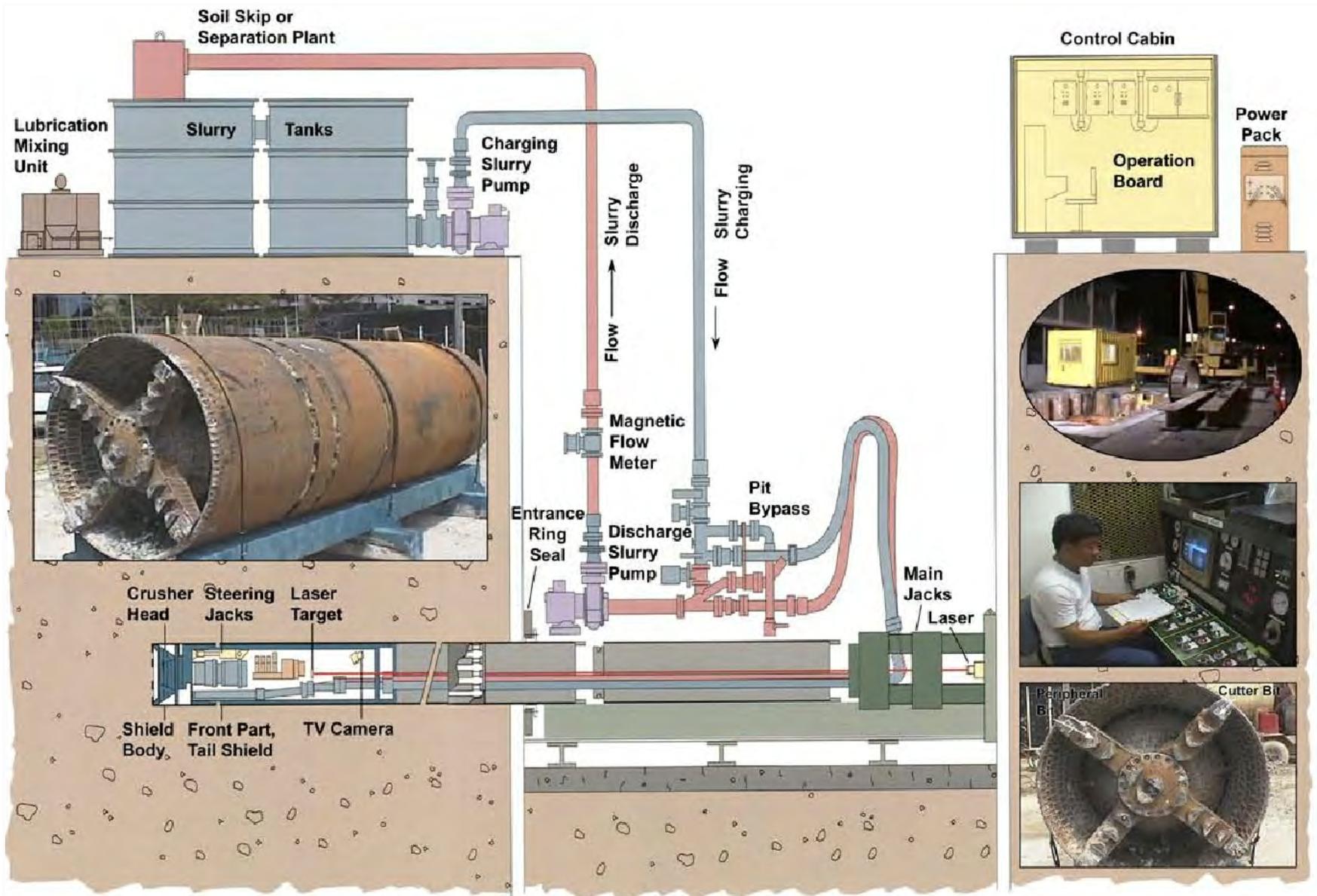
Installation of FM #3 by straight microtunneling requires two shafts approximately 100 feet deep to install the force main below the pier piles and harbor mudline. Two additional receiving shafts, approximately 30 to 40 feet deep, and two shallow reception pits or trenches also would be required.

Conventional Tunneling

Conventional Tunneling involves manned-entry tunneling with closed-faced earth pressure balanced (EPB) or slurry tunnel boring machine (TBM), with initial tunnel support provided by pre-cast segmental reinforced concrete liner. Installation of FM #3 by conventional tunneling requires two portals approximately 25 to 30 feet deep for entry and exit. This trenchless method is the slowest method.

2.5.2 Sand Island Portion

The Sand Island Recreational Area to the WWTP segment of FM #3 may be installed by either open trench or trenchless construction methods, including microtunneling or conventional tunneling. However, open trench construction is anticipated to be most cost-effective.



Microtunneling Boring Machine

FIGURE 2-5

Ala Moana Pump Station Force Main #3

2.6 PROJECT SCHEDULE

Construction of Ala Moana FM #3 is expected to be completed by the end of 2014. To meet this construction completion deadline, the construction notice to proceed should be issued by January 2012.

2.7 CONSTRUCTION COSTS

The estimated construction cost for the project is \$134 million. A more detailed cost estimate will be performed during design. Funding for the project will be provided by the City. Federal funds will not be used for this project.

SECTION 3

Relationship to State and County Land Use Plans and Policies

3.1 HAWAII STATE PLAN

The Hawaii State Plan, Chapter 226 of the Hawaii Revised Statutes, serves as a guide for the future long-range development of the State. The Plan, first adopted in 1978, identifies the goals, objectives, policies, and priorities for the State. The proposed project is in compliance with the applicable objectives and policies, which are listed below:

- §226-13 Objectives and policies for the physical environment--land, air, and water quality.
- (a)(1) Maintenance and pursuit of improved quality in Hawaii's land, air, and water resources.
 - (b)(3) Promote effective measures to achieve desired quality in Hawaii's surface, ground, and coastal waters.
- §226-14 Objective and policies for facility systems--in general.
- (a) Planning for the State's facility systems in general shall be directed towards achievement of the objective of water, transportation, waste disposal, and energy and telecommunication systems that support statewide social, economic, and physical objectives.
 - (b) To achieve the general facility systems objective, it shall be the policy of this State to:
 - (1) Accommodate the needs of Hawaii's people through coordination of facility systems and capital improvement priorities in consonance with state and county plans.
 - (2) Encourage flexibility in the design and development of facility systems to promote prudent use of resources and accommodate changing public demands and priorities.
 - (3) Ensure that required facility systems can be supported within resource capacities and at reasonable cost to the user.
 - (4) Pursue alternative methods of financing programs and projects and cost-saving techniques in the planning, construction, and maintenance of facility systems.
- §226-15 Objectives and policies for facility systems--solid and liquid wastes.
- (a) Planning for the State's facility systems with regard to solid and liquid wastes shall be directed towards the achievement of the following objectives:
 - (1) Maintenance of basic public health and sanitation standards relating to treatment and disposal of solid and liquid wastes.
 - (2) Provision of adequate sewerage facilities for physical and economic activities that alleviate problems in housing, employment, mobility, and other areas.
 - (b) To achieve solid and liquid waste objectives, it shall be the policy of this State to:
 - (1) Encourage the adequate development of sewerage facilities that complement planned growth.

3.2 STATE LAND USE LAW

The State Land Use Law, Chapter 205 of the Hawaii Revised Statutes, established the State Land Use Commission, which classifies all lands within the state into four land use districts: Urban, Rural, Agricultural and Conservation. The land portions of the project area are within the Urban District, and the area crossing the Main Channel of the Honolulu Harbor is within the Conservation District. Refer to **Figure 3-1**.

The Conservation District has five subzones administered by the State Department of Land and Natural Resources, Office of Conservation and Coastal Lands: Protective (most environmentally



sensitive), Limited, Resource, General (least environmentally sensitive) and Special (applied in special cases specifically to allow a unique land use on a specific site). All state marine waters are in the Resource Subzone. The proposed public purpose land use within the Conservation District requires a Conservation District Use Application Permit from the State Department of Land and Natural Resources.

3.3 KAKAAKO COMMUNITY DEVELOPMENT PLAN

The State Legislature created the Hawaii Community Development Authority (HCDA) in 1976 to initiate and guide redevelopment and revitalization of underdeveloped urban communities. Kakaako was the first Community Development District designated. The Ala Moana WWPS and portion of the proposed project alignment to the end of Ilalo Street are within the Makai Area of the Kakaako Community Development District. The Makai Area boundary was depicted earlier in **Figure 2-4**. Work within the area will conform to the Kakaako Community Development District Rules for the Makai Area (Hawaii Administrative Rules, Title 15, Subtitle 4, Chapter 23), the Makai Area Plan and Design Guidelines. The proposed project requires a Makai Area Development Permit from HCDA.

3.4 CITY AND COUNTY OF HONOLULU GENERAL PLAN

The General Plan sets forth the long-range objectives and policies for the general welfare and prosperity of the people of Oahu. The proposed project is in compliance with the applicable objectives and policies, which are listed below:

TRANSPORTATION AND UTILITIES

Objective B: To meet the needs of the people of Oahu for an adequate supply of water and for environmentally sound systems of waste disposal.

Policy 5: Provide safe, efficient, and environmentally sensitive waste-collection and waste-disposal services.

Objective C: To maintain a high level of service for all utilities.

Policy 2: Provide improvements to utilities in existing neighborhoods to reduce substandard conditions.

Policy 3: Plan for the timely and orderly expansion of utility systems.

Objective D: To maintain transportation and utility systems which will help Oahu continue to be a desirable place to live and visit.

Policy 1: Give primary emphasis in the capital improvement program to the maintenance and improvement of existing roads and utilities.

3.5 CITY AND COUNTY OF HONOLULU PRIMARY URBAN CENTER DEVELOPMENT PLAN

Oahu is divided into eight planning areas, each of which has a Development Plan adopted by City Council ordinance. The development plans are more detailed than the General Plan, and

specific to the region communities and neighborhoods. The proposed project area is addressed by the Primary Urban Center (PUC) Development Plan, adopted in June 2004.

The Primary Urban Center (PUC) Development Plan establishes policy for the shape and growth of PUC, including land use, transportation, infrastructure, and public utilities from Kahala to Pearl City. The proposed project is in compliance with the applicable policies, which are listed below:

- Implement wastewater collection system improvements to provide adequate service and sound facilities to existing neighborhoods and timely increase in system capacity to areas planned to undergo improvement or change in use.
- Implement adequate and timely upgrades/expansion of wastewater treatment facilities to meet the growth demands of the PUC.

3.6 CITY AND COUNTY ZONING

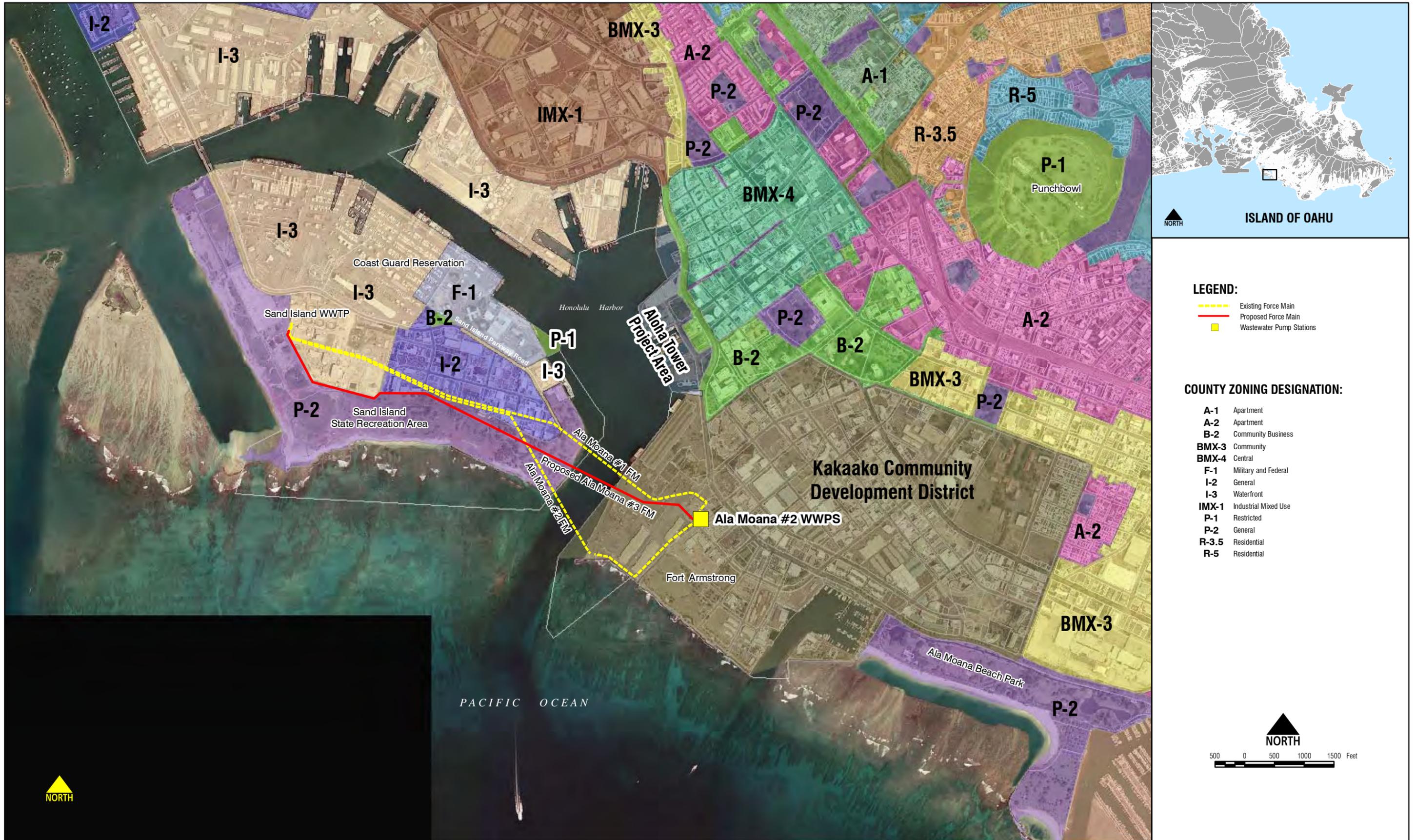
The project area on Sand Island is zoned by the City and County of Honolulu, and the areas within the Kakaako Development District and State Conservation District are not zoned, as shown on **Figure 3-2**. The Sand Island Recreational Area is zoned as P-2, General Preservation District. The Sand Island WWTP site is zoned I-3, Waterfront Industrial District. A Zoning Waiver from the City and County of Honolulu Department of Planning and Permitting, Land Use Permits Division may be granted by the director for public utility installations and will be obtained.

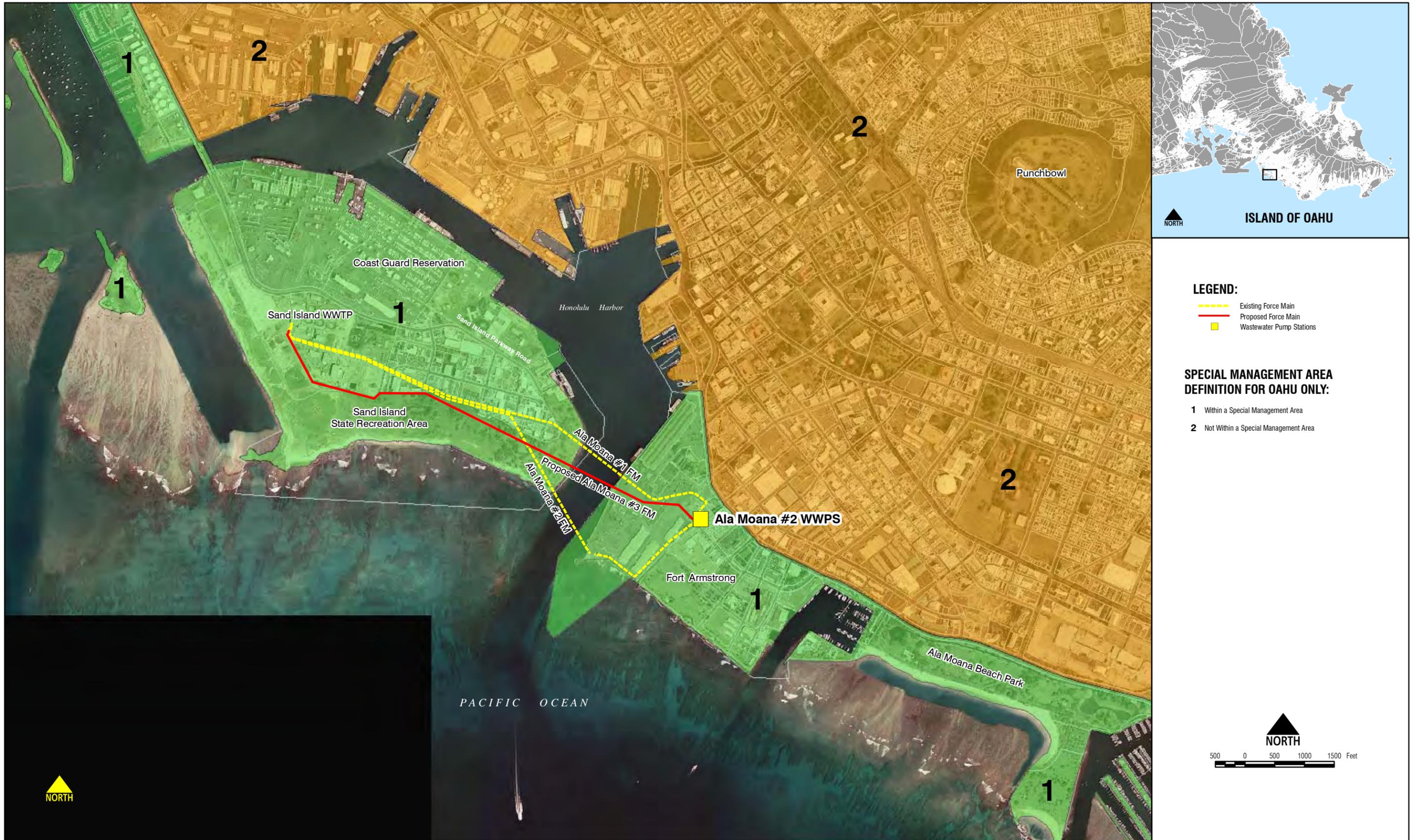
3.7 COASTAL ZONE MANAGEMENT PROGRAM

The Hawaii Coastal Zone Management (CZM) Program was enacted in 1977 by Chapter 205A, Hawaii Revised Statutes. This program was created to coordinate federal, state and county agency efforts in the comprehensive management of Hawaii's precious coastal resources. The Hawaii CZM Program is administered by the State Office of Planning. The four individual counties are responsible for administering the CZM program locally through the Special Management Area (SMA) Permit and Shoreline Setback Variance. However, within the Community Development Districts, such as Kakaako Community Development District, the State Office of Planning has the administrative authority to process the SMA Permit and Shoreline Setback Variance.

3.7.1 SPECIAL MANAGEMENT AREA PERMIT

The Special Management Area Permit is administered by the City and County of Honolulu Department of Planning and Permitting, Land Use Permits Division; and by the State Office of Planning for the Kakaako Community Development District. The proposed project area is within the SMA as indicated on **Figure 3-3**. However, the SMA Permit does not regulate





Special Management Area Map

FIGURE 3-3

Ala Moana Pump Station Force Main #3

“installation of underground utility lines and appurtenant aboveground fixtures less than four feet in height along existing corridors”, unless the “cumulative impact of which may have significant environmental or ecological effect on the special management area...” (LUO Chapter 25, Section 1.3(2)(M)) Significant environmental or ecological effects on the SMA are not anticipated. Therefore, the proposed project does not require SMA permits.

3.7.2 SHORELINE SETBACK VARIANCE

HRS 12-222 defines the shoreline as “the upper reaches of the wash of the waves, other than storm and seismic waves, at high tide during the season of the year in which the highest wash of the waves occurs, usually evidenced by the edge of vegetation growth.” HRS 13-222 also states that “when a shoreline has been permanently altered by the development of a harbor, lagoon, marine, or other water facility, the shoreline shall be at the mouth of the harbor, lagoon, marina, or water facility.” The Shoreline Setback is generally located 40 feet inland from the shoreline, as shown in **Figure 3-4**. The project does not appear to be within the Shoreline Setback area. Confirmation will be obtained from the City and County of Honolulu Department of Planning and Permitting, Land Use Permits Division; and by the State Office of Planning for the Kakaako Community Development District. However, if it is determined the project is within the Shoreline Setback area, a variance will be obtained. Any proposed construction within the shoreline setback requires review and granting of a variance. In accordance with LUO Section 23-1.8(b)(2), the Director may grant a variance if the proposed construction meets the Public Interest Standard:

Public Interest Standard. A variance may be granted for an activity or structure which is undertaken by a public agency or by a public utility regulated under HRS Chapter 269...; provided that the proposal is the practicable alternative which best conforms to the purpose of this chapter and the shoreline setback rules.

Public interest shall mean principally of benefit to the general public, as determined by the director.

3.8 DEPARTMENT OF THE ARMY PERMIT

The Department of the Army Permit is administered by the U.S. Army Corps of Engineers (COE), Honolulu District, whose primary mission is to protect United States aquatic resources. Any work above, below, or within the waters of the United States requires a Department of the Army Permit. This is triggered by the proposed Ala Moana FM #3 crossing of Honolulu Harbor. The legislative authorities for which the COE is responsible to administer include the following:

- Section 10 of the Rivers and Harbors Act of 1899: any work in or over navigable waters of the United States, or which affects the course, location, condition or capacity of such waters.
- Section 404 of the Clean Water Act of 1977: discharge of dredged or fill material into the waters of the United States.
- Section 307 of the Coastal Zone Management Act of 1972: project must comply with approved State CZM program.



Approximate Shoreline Area

FIGURE 3-4

Ala Moana Pump Station Force Main #3

- Section 7 of the Endangered Species Act of 1973: action will not jeopardize the continued existence of any endangered or threatened species, or result in the destruction or adverse modification of their critical habitat.
- Section 106 of the National Historic Preservation Act: consider the effect of the undertaking on any district, site, building, structure, or object that is included in or eligible for inclusion in the National Register.
- Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972: Transportation of dredged material to be dumped in the ocean at disposal sites selected in accordance with EPA criteria.

3.9 DEPARTMENT OF HEALTH SECTION 401 WATER QUALITY CERTIFICATION

Section 401 of the Clean Water Act is administered by the State of Hawaii, Department of Health (DOH) under Hawaii Administrative Rules, Chapter 11-54, Water Quality Standards. Honolulu Harbor is classified as Class A waters, to protect their use for recreational purposes and aesthetic enjoyment. A 401 Water Quality certification is only required if the COE deems it necessary during the Department of the Army permitting process.

3.10 HONOLULU WATERFRONT MASTER PLAN

The Honolulu Waterfront Master Plan was prepared by the State of Hawaii, Office of Planning in 1989 to identify and articulate long-range vision for the Honolulu Waterfront, assure a logical and achievable phasing of improvements with minimal impacts to the environment and economy, and maximize public benefits associated with the State owned lands in the waterfront area. The Honolulu Waterfront Master Plan had planned a Parkway through SIRA along the same general alignment as the proposed force main. However, the document is 20 years old and plans and priorities have changed, and the Parkway is no longer being planned.

SECTION 4 Description of the Environment

4.1 CLIMATE

The climate in the general area is characterized by relatively constant temperatures, abundant sunshine, persistent trade winds, and moderate humidity. Average temperatures range from 73 degrees Fahrenheit (°F) in the winter to 81°F in the summer. Annual rainfall averages approximately 22 inches, with the majority of the rainfall occurring between the months of October and April. Tradewinds from the northeast prevail throughout most of the year, while occasional “Kona” winds from the south bring warm, humid air. Relative humidity ranges from 55 to 70 percent.

4.2 TOPOGRAPHY

The topography of the proposed Ala Moana FM #3 alignment is relatively flat ranging in elevation from 3 to 10 feet mean sea level.

4.3 SOILS

According to the *Soil Survey* issued in 1972 by the U.S. Department of Agriculture Soil Conservation Service (USDA-SCS), the soil throughout the proposed alignment is Fill Land, mixed (FL), as shown on **Figure 4-1**. This type of land occurs mostly near Pearl Harbor and in Honolulu, adjacent to the ocean. It consists of areas filled with material dredged from the ocean or hauled from nearby areas, garbage, and general material from other sources. This land type is used for urban development including airports, housing areas, and industrial facilities.

4.4 FLOOD

According to the Federal Flood Insurance Rate Map, the project area is categorized as Zone A, an area within the 100-year flood plain, and Zone X, areas determined to be outside of the 100-year flood plain. See **Figure 4-2**. Construction within Zone A requires approval by the City & County of Honolulu DPP. Per the City & County of Honolulu Land Use Ordinance, “the director may grant an exemption to utility lines based on the applicant’s satisfactory justification that no other alternative will better achieve the district’s purpose and objectives.” All applicable federal, state, and county requirements will be followed.

4.5 HAZARDOUS MATERIALS

A document review was performed by URS Corporation to identify areas where impacted soil and/or ground may be encountered in the project area. The following list summarizes the findings:



REFERENCE: Soil Survey of Kauai, Oahu, Maui, Molokai, and Lanai, State of Hawaii, United States Department of Agriculture, Soil Conservation Service, August 1972



- Ala Moana WWPS site: Low levels of lead in the groundwater were detected. However, lead is probably present within the fill material that was used to build the site and surrounding Kaka’ako area.
- Ilalo Street: No significant environmental impacts.
- Honolulu Harbor: Petroleum releases at the Coast Guard station have occurred. However, the site is approximately 2,000 feet north of the proposed force main and will not impact the project.
- Sand Island Recreation Area: Portions of the SIRA were previously used as an ash and trash dump.
- Sand Island WWTP: PCBs were previously detected. However, the levels were at low levels and were not migrating to the groundwater.

4.6 MARINE ECOLOGY

Alterations to the Harbor through dredge and fill operations have left little of the original biofauna intact. Generally, marine life is neither abundant nor diverse in most areas of Honolulu Harbor. The Harbor bottom is typically thick, unconsolidated sediments (mud) with occasional burrows, particularly in shallow water, and limited fish life. This substrate forms the habitat for burrowing worms, shrimp, and crabs. Most of the organisms common to the soft bottom areas are capable of rapid recolonization following disturbance. One major fish species inhabiting the mud bottom ecosystem is the juvenile hammerhead shark which feeds on mud-dwelling invertebrates.

4.7 NOISE

The two major sources of noise in the project area are from vehicular traffic and aircraft flying overhead. Of the two, aircraft noise levels have the greatest potential impact. Sand Island is in the path of tradewind aircraft departures, particularly from the Reef Runway of Honolulu International Airport (HIA), which lies approximately 8,000 feet from the end of the runway.

4.8 AIR QUALITY

Air quality in the vicinity of the project is primarily affected by emissions from vehicular, industrial, and natural sources. Air quality in the project area is considered acceptable due to the prevailing northeasterly tradewinds, which blow pollutants from inland areas out to sea. Problems of poor air quality are more likely to occur during “Kona” (southerly or southwesterly) wind conditions.

The Department of Health (DOH), Clear Air Branch, operates a network of air quality monitoring stations located at various sites around Oahu. Based on the data from the *Annual Summary of the 2007 Hawaii Air Quality Data*, both State and Federal ambient air quality standards are currently being met in the project vicinity.

4.9 WATER QUALITY

The waters of Honolulu Harbor are designated Class “A” by the State DOH. Class “A” waters are to be protected “for recreational purposes and aesthetic enjoyment.” According to the standards for this class, discharges are not permitted in Honolulu Harbor unless they have received the best degree of treatment or control compatible with the criteria established for this class of waters.

4.10 TIDES AND CURRENTS

The mean tide in Honolulu Harbor is 0.8 feet above Mean Lower Low Water (MLLW). The mean tidal range between MLLW and Mean Higher High Water (MHHW) is 1.9 feet. Historically, tides have ranged from a minimum of -1.4 feet to a maximum of 3.4 feet.

4.11 ARCHAEOLOGICAL RESOURCES

A review of previous documents revealed no historic properties located in the project area. Based on consultation with State Parks, bunkers and defense towers constructed during World War II are not listed with the Department of Land and Natural Resources (DLNR) State Historic Preservation Division (SHPD) as historic sites, but must be preserved. Therefore, work will be coordinated closely with State Parks, and the project alignment will be adjusted to avoid impacting these sites. SHPD was consulted and has found that the project will have “no effect to historic properties.”

4.12 FLORA AND FAUNA

The project site consists of urban environments providing little habitat for any terrestrial flora and fauna. Vegetation in the area is influenced by generally low rainfall, saline soil, the man-made origin of the area, and the high degree of development and human activity. Consequently, only a small variety of plant life can be found, which is characterized as drought resistant, highly salt tolerant, and hardy in dry areas. No Federal or State listed or candidate threatened or endangered plant species are currently found on any areas of the project area.

Wildlife in the project area is essentially limited to mammals and birds which have adapted to the urban environment. Moongoose, rats, mice, feral dogs, and cats are common. Most of the existing wildlife can be found in the under-utilized and more heavily vegetated areas of the island. No Federal or State listed or candidate threatened or endangered bird species are currently found in the project area.

4.13 WETLANDS

There are no wetlands identified within the immediate project area. See **Figure 4-3** for the wetlands identified in the vicinity.



4.14 INFRASTRUCTURE

4.14.1 ROADS

Vehicular access to the Ala Moana WWPS is from Keawe Street. Vehicular access to the Sand Island State Recreation Area (SIRA) and SIWWTP is from Sand Island Access Road. Vehicular access to Fort Armstrong is from Forrest Avenue. There are no bus routes on Ilalo Street and Forrest Avenue. The proposed rail alignment is also not along these roads.

HCDA is planning improvements to Forrest Avenue. If possible, this work will be coordinated with construction of the new force main to minimize demolition and subsequent restoration of the improvements.

The HCDA Makai Area Plan includes transportation system improvements for cars, public transportation, bicycles, and pedestrians. Ilalo Street is proposed as the principal collector street for the makai area. Ilalo Street is planned to be extended from the present Ala Moana Boulevard-Punchbowl Street intersection to the existing Ilalo Street-Forrest Avenue intersection.

4.14.2 WATER SYSTEM

Potable water is provided to the Ala Moana WWPS by a 4-inch lateral from an 8-inch Board of Water Supply (BWS) water line in Keawe Street. Daily water usage consists of sanitary fixtures, landscape irrigation, washdown and other maintenance purposes. Additional water is needed on an intermittent basis for wet well cleaning and maintenance of the odor control system. Potable water is provided to Fort Armstrong by 6-inch and 12-inch BWS water lines. Daily water usage consists of sanitary fixtures, washdown, and other maintenance purposes.

Potable water is provided to the SIRA by a BWS water line located along Sand Island Parkway. Daily water usage consists of sanitary fixtures and landscape irrigation.

Potable water is provided to the SIWWTP through an 8-inch water line connected to a 16-inch water main located along Sand Island Parkway. Daily water usage consists of sanitary fixtures, landscape irrigation, washdown and other maintenance purposes.

There are wells in the vicinity of the project location. These wells are unused or brackish water wells and will not be affected by the project.

4.14.3 ELECTRICAL SERVICE

Electrical power is provided to the Ala Moana WWPS by Hawaiian Electric Company (HECO) overhead service lines along Keawe Street. Pad-mounted transformers step down HECO's 11.5 kV power to 480/277 V power. In event of a commercial power outage, emergency generators will start and essential loads automatically transfer to emergency power.

SECTION 4 – Description of the Environment

Electrical power is provided to Fort Armstrong by Hawaiian Electric Company (HECO) overhead service lines. Pad-mounted transformers step down HECO's 11.5 kV power.

Electrical power is provided to SIWWTP by two underground 11.5 kV HECO feeders. Pad-mounted transformers step down HECO's 11.5 kV power to 480/277 V power. In the event of a commercial power outage, emergency generators will start and essential loads automatically transfer to emergency power.

4.14.4 GAS LINES

There are no gas lines serving the Ala Moana WWPS, Fort Armstrong, SIRA, or SIWWTP. However, there are gas lines in the vicinity along Ilalo Street, Keawe Street, and Ala Moana Boulevard.

SECTION 5 Alternatives to Proposed Action

5.1 NO ACTION

“No action” is not considered a feasible alternative. The existing system does not have sufficient backup capacity to convey peak wet weather flows. Furthermore, the City has agreed to a stipulated order with the EPA and DOH requiring the City to install a backup force main.

5.2 REHABILITATION OF THE EXISTING FORCE MAINS

The capacity of the existing Ala Moana WWPS Force Main #1 is limited by the pressure limitation. However, according to the *Technical Memorandum – Task R04: FM #1 Full Field Investigation and Task R05: FM #1 Structural Evaluation* (R.M. Towill Corporation, Rev. 2, July 5, 2002), rehabilitation of the sub-aqueous portion of FM #1 to improve its pressure rating is not recommended due to the possibility of catastrophic events such as dewatering system failure or a slipliner getting stuck under the harbor entrance requiring a dredge type excavation and blocking the harbor.

5.3 INSTALLATION METHOD

Viable installation methods considered other than the proposed straight microtunneling methods include horizontal directional drilling and curved microtunneling.

5.3.1 HORIZONTAL DIRECTIONAL DRILLING (HDD)

Horizontal Directional Drilling (HDD) is a preferred method of construction; however it is not recommended for this installation, due to the factors listed below. HDD was evaluated extensively because it is usually the safest and fastest, and seemingly most cost-effective trenchless construction method. Due to the depth the force main will be installed underwater, the pipe walls need to have sufficient strength to withstand the hydrostatic pressure, as well as the pull through the drilled hole. Therefore, the size of the pipes that can be installed via HDD is limited, which will require more pipes. Six (6) 36-inch conduits are required to convey the peak wet weather design flow. The corresponding easement width would be a minimum of 145 feet, and the valving on the six (6) force mains would be extensive.

There is some risk of impact to the piles if excessive material is removed under the pile tips. However, subsequent to the Hart Street WWPS Force Main Replacement project, it is understood that DOT-Harbors will not allow underpinning of the pier piles to address this risk.

FM #3 would be over 60 feet below the ground surface beyond Forrest Avenue and within the DOT-Harbors container yard, if constructed by HDD. Options were considered to protect the pipe and minimize construction restrictions above the FM #3 alignment. A possible option might be to install a large jet grouted ground mass along a segment of the alignment. It is anticipated that the easement beyond Forrest Avenue would not need to provide for surface

access to FM #3 due to the great depth, but rather to provide parameters for construction above and near the FM #3 alignment to ensure future piles are not located near FM #3. Significant effort and challenges are anticipated to obtain the necessary permits; and jet grouting will cause disruption of pier operations which may be unacceptable to DOT-Harbors.

5.3.2 CURVED MICROTUNNELING

Curved microtunneling is similar to straight microtunneling, but uses more advanced guide and steering systems; and utilizes pipe joints for deflection to curve the pipe. With the advancement of curved microtunneling, curved microtunneling is preferred over straight microtunneling because it would require shallower shafts. However, curved microtunneling is not viable for this project due to the presence of very soft marine sediments. These soft soils do not provide sufficient support for the microtunneling machine to turn, making curved microtunneling very difficult without substantial ground improvement measures such as jet grouting. However, grouting the soil is not recommended due to the time, money, potential disruption to harbor activity, and associated permitting requirements.

SECTION 6 Impacts and Mitigation Measures

6.1 SHORT TERM CONSTRUCTION IMPACTS

The primary impacts of the proposed action would occur during construction. Compounding the construction difficulties are the location of the proposed alignment through a busy pier container yard which is vital to commercial shipping for Hawaii, and the need to cross the main harbor channel with marine vessel traffic.

Installation of the force main across the harbor channel could seriously impact harbor operations and water quality. Therefore, alternative construction methods were examined to minimize potential disruptions to the harbor channel and water related activities. Trenchless technologies were explored as part of the preliminary engineering analysis.

6.2 NOISE

Installation of the force main may require machinery that generates a significant amount of noise. Microtunneling will involve specialized equipment which would also be covered by the noise permits. The subsurface nature of the tunneling work will significantly reduce noise impacts in the surrounding area.

In general, noise impacts are not expected to be of significant concern on the Fort Armstrong and Ala Moana WWPS side of the harbor, due to the industrial nature of the surrounding area. There are camping areas in the vicinity of the work within SIRA. Noise from construction activities may disturb campers in the area.

Mitigative Measures: Since noise levels generated by construction activity are anticipated to exceed allowable limits, a noise variance permit must be obtained from DOH. As set forth under Administrative Rules, Title 11, Chapter 43, DOH may grant permits to operate vehicles and construction equipment which emit noise levels in excess of the allowable limits.

Construction activities on Sand Island will be limited at night to minimize disruption to campers. If possible, alternate camping sites that are further from the construction site may be made available. This must be coordinated closely with State Parks.

6.3 AIR QUALITY

Construction on the land portions of the project corridor may temporarily degrade ambient air quality due to fugitive dust during trenching and tunneling. In addition, emissions from construction equipment and vehicles may slightly impact air quality in the area. Under normal tradewind conditions, dust and fumes will be dispersed away from the project site toward the ocean.

Mitigative Measures: The short-term effects on air quality during construction will be mitigated by compliance with the DOH rules on air pollution control. Control measures anticipated to reduce fugitive dust include frequent wetting down of loose soil areas with water, covering of dirt-hauling trucks, and utilization of dust screens. Project activities shall comply with the Hawaii Administrative Rules of the Department of Health, Chapter 11-46, Community Noise Control.

6.4 WATER QUALITY

If microtunneling is used for the channel crossing, significant water quality impacts will be largely avoided since no active trenching or construction will occur in the water. Excavated material will be hauled off-site to a site selected by the contractor. A lined and/or bermed sedimentation basin will be used off-site to dry out the excavated material for re-use. If suitable, the excavated material can be used to backfill the shafts or trenches. Excavated material will not be discharged back into coastal waters.

If conventional open trenching methods are used to install the force main on the Sand Island side, dewatering of the excavated materials is likely. Water that is discharged into any drainage system or coastal waters must be treated. If the water is placed back in the trench, no treatment is required.

Mitigative Measures: Prior to construction, full compliance with State water quality requirements will be sought. Construction dewatering permits will be required by the City and County of Honolulu Department of Design and Construction and DOH pursuant to City Ordinance and Section 11-5-23.08(b) of the Hawaii Administrative Rules, respectively.

As part of the anticipated National Pollutant Discharge Elimination System Permit, water quality sampling and analyses will be undertaken for potential contaminants which may be anticipated. An effluent discharge control plan will be prepared incorporating Best Management Practices (BMP) plans, appropriate structural or non-structural mitigative methods such as containment berms and filtration or detention ponds which would control the discharge of stormwater runoff and effluent resulting from construction and dewatering activities. The trucks used to haul excavated material will be lined to prevent leakage during transit. The contractor shall implement a monitoring program for leaks or debris falling from the trucks.

6.5 HAZARDOUS MATERIALS

There do not appear to be any hazardous materials of environmental impact within the project area. However, soils should be tested prior to reuse or disposal. Any waste generated will be handled in accordance with State solid waste disposal laws.

Mitigative Measures: All appropriate worker protection procedures should be implemented. This includes wearing proper personal protective equipment, dust and runoff controls, and soil and groundwater handling and disposal procedures. A contingency plan should be implemented to address any contaminated soil or groundwater that may be encountered during excavation activities. A soil management plan should be implemented if petroleum impacted soils are

encountered. If ash is encountered during construction, it should be tested for hazardous wastes. If encountered, all appropriate measures will be taken while handling any hazardous waste. In the event that underground storage tanks (USTs) are discovered, all appropriate measures will be followed to comply with state UST closure requirements.

6.6 FLORA AND FAUNA

Construction activities may displace flora and fauna at the site. However, because the area is highly developed, disturbance of any flora or fauna is unlikely. There are no Federal or State listed endangered species on the site which would be impacted.

6.7 MARINE HABITATS

Since microtunneling is planned for the channel crossing, significant impacts to marine habitats are not anticipated. Microtunneling will not disturb the channel bottom. Existing harbor activities, including tugboats and ships, already generate significant turbidity plumes.

Mitigation Measures: Excavated material will be hauled off-site to a site selected by the contractor. A lined and/or bermed sedimentation basin will be used off-site to dry out the excavated material for re-use. The trucks used to haul excavated material will be lined to prevent leakage during transit. Excavated material will not be discharged back into coastal waters.

6.8 ARCHAEOLOGICAL RESOURCES

A review of previous documents revealed no historic properties located in the project area and concurrence by SHPD obtained. Based on these findings, further archaeological investigations are not required and monitoring during construction is not justified.

Mitigative Measures: In the unlikely event that subsurface archaeological materials are encountered during construction, work shall cease in the immediate area and the State Historic Preservation Division of the Department of Land and Natural Resources will be notified. Per consultation with State Parks, bunkers and defense towers constructed during World War II are not listed with DLNR, SHPD as historic sites, but must be preserved. Therefore, work will be coordinated closely with State Parks, and the project alignment will avoid impacting these sites.

6.9 TRAFFIC

6.9.1 VEHICULAR TRAFFIC

Construction activities will adversely affect vehicular traffic in the vicinity of the pipe installation work. This includes Ilalo Street, DOT Harbors Fort Armstrong container yard storage and movements, and SIRA. A traffic control plan will be prepared as part of the design process and construction work will be coordinated with DOT Harbors and State Parks to minimize traffic impacts. If oversized equipment or loads are required, all appropriate permits will be obtained from DOT Highways.

Mitigative Measures: A program to monitor leakage or falling debris from trucks shall be implemented.

6.9.2 HARBOR TRAFFIC

Impacts to harbor traffic are expected to be minimal. No in-water work is expected with microtunneling. Construction work within Fort Armstrong shall be coordinated with DOT Harbors to minimize impacts to harbor traffic.

6.10 UTILITIES

Numerous utilities traverse the project corridor. Utility companies shall be consulted during design to minimize conflicts and disruptions to their service. Prior to construction, all existing utility lines along and in proximity to the force main alignment will be identified and their depths located to avoid damaging them.

6.11 SOCIO-ECONOMIC

Businesses along the proposed alignment may be disturbed during construction because of noise, fugitive dust, and vehicular access restrictions or detours. No businesses will be displaced as a result of the pipe installation work.

Mitigative Measures: To avoid major disruptions of businesses, the contractor shall coordinate the construction schedule with businesses in the project area to minimize construction impacts and expedite the work schedule. Furthermore, the contractor shall give ample notification to businesses in the area when construction will occur. Following construction work, the area will be restored to original condition at a minimum.

6.12 LONG TERM WATER QUALITY IMPACTS

Construction of the backup force main will reduce the chance of a sewage spill. Therefore, the long term impacts of the force main will be beneficial to the water quality of the Harbor.

6.13 LONG TERM MARINE HABITAT IMPACTS

Construction of the backup force main will reduce the chance of a sewage spill. Therefore, the long term impacts of the force main will be beneficial to the marine habitat of the Harbor.

6.14 LONG TERM SOCIO-ECONOMIC IMPACTS

The proposed force main will accommodate projected flows to the year 2065. This will provide adequate infrastructure to support population and economic growth in the Honolulu area.

SECTION 7 Determination

The potential effects of the proposed project are evaluated based on the significance criteria identified in the Hawaii Administrative Rules, Section 11-200-12. The following is a summary of the potential effects of the project.

- 1) *Involves an irrevocable commitment to loss or destruction of any natural or cultural resource.*

The project will not involve an irrevocable commitment to loss or destruction of any natural or cultural resource.

- 2) *Curtails the range of beneficial uses of the environment.*

The project will not permanently curtail the beneficial uses of the environment.

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

The project will be in conformance with chapter 344, HRS. The proposed project will improve force main reliability and reduce the risk of future wastewater spills.

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

The project is not anticipated to have significant effects on the economic and social welfare of the community or state.

- 5) *Substantially affects public health.*

The project will improve force main reliability and is not anticipated to have any adverse effects on public health. It will have a positive impact on public health by reducing the risk of future wastewater spills.

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

The project is not anticipated to result in substantial secondary impacts.

- 7) *Involves a substantial degradation of environmental quality.*

The project is not anticipated to involve degradation of environmental quality.

SECTION 7 – Determination

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

The project is not anticipated to result in cumulative effects.

- 9) *Substantially affects a rare, threatened, or endangered species, or its habitat.*

The project is not anticipated to affect any rare, threatened, or endangered species or habitat.

- 10) *Detrimentially affects air or water quality or ambient noise levels.*

The project is not anticipated to affect long term air quality, water quality, or ambient noise levels.

- 11) *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 is located within the Special Management Area and crosses the Honolulu Harbor. However, the force main will be located underground and is not anticipated to be impacted by a tsunami. Best management practices will be used during construction to minimize any impacts on coastal waters.

- 12) *Substantially affects scenic vistas and viewplanes identified in county or state plans or studies.*

The project will not affect any scenic vistas or view planes.

- 13) *Requires substantial energy consumption.*

The project will not require substantial energy consumption. The new force mains will utilize the existing power source at the pump stations.

This environmental assessment has determined that the project will not have significant adverse impacts to the natural, built, or social environment. Therefore, it is recommended that an Environmental Impact Statement (EIS) is not required and a Finding of No Significant Impact (FONSI) is anticipated for this project.

SECTION 8 Permits and Approvals

8.1 CITY AND COUNTY OF HONOLULU

The following permits are required by the City and County of Honolulu:

- Shoreline Setback Variance: Department of Planning and Permitting, Land Use Division (confirmation not in shoreline setback)
- Street Usage Permit: Department of Transportation Services
- Special Management Area (confirmation of exemption)
- Flood Zone Variance: Department of Planning and Permitting, Land Use Division
- Zoning Waiver: Department of Planning and Permitting, Land Use Division
- Street Usage Permit: Department of Transportation Services
- Grading, Grubbing, Excavation, & Stockpiling Permits: Department of Design and Construction
- Dewatering Permit: Department of Design and Construction

The following approvals are required by the City and County of Honolulu:

- Board of Water Supply
- Traffic Control Plan: Department of Transportation Services

8.2 STATE OF HAWAII

The following permits are required by the State of Hawaii:

- Shoreline Setback Variance: Office of State Planning (confirmation not in shoreline setback)
- NPDES Permit for Construction Related Discharges: Department of Health
- Conservation District User Permit: Department of Land and Natural Resources
- Kakaako District Special Management Area Permit: State Office of Planning
- Makai Area Development Permit: Hawaii Community Development Authority
- Community Noise Control: Department of Health

The following approvals/reviews are required by the State of Hawaii:

- Wastewater Systems: Department of Health
- Air Pollution Control: Department of Health

8.3 FEDERAL AGENCIES

The following permits are required by the Federal Government:

- Department of the Army Permit, Section 10: Army Corps of Engineers

8.4 APPROVALS RECEIVED

The following approvals have been received:

- National Park Service: Granted a 2-year construction period and utility easement for maintenance
- Department of Land and Natural Resources, State Historic Preservation Department: No effect on historic properties

SECTION 9
Consulted Parties

9.1 PRE-ENVIRONMENTAL ASSESSMENT

Pre-environmental assessment comments were solicited from government agencies and other organizations listed below.

City and County of Honolulu

Board of Water Supply
Department of Planning and Permitting
Department of Transportation Services

State of Hawaii

Aloha Tower Development Corporation
Department of Land and Natural Resources
Department of Health
 Clean Air Branch
 Clean Water Branch
 Environmental Health Administration
 Solid and Hazardous Waste Branch
 Wastewater Branch
Department of Hawaiian Homelands
Department of Business, Economic Development, & Tourism
Department of Transportation
 Highways Division
 Harbors Division
Hawaii Community Development Association
Office of Hawaiian Affairs
Office of Planning
University of Hawaii, Manoa
 Environmental Research Center
 Water Resource Research Center
 Marine Center

Federal Agencies

USDA Natural Resource Conservation Service
U.S. Department of Interior, Fish and Wildlife Service
U.S. Army Corps of Engineers
U.S. Coast Guard

Utility Companies

Gas Company
Hawaiian Electric Company
Hawaiian Telcom

Private Organizations

Aloha Cargo Transport

Hawaii Stevedores, Inc.

Inchcape Shipping

Matson Navigation Company, Inc.

SECTION 10

References

Analytical Planning Consultants, Inc. *FEA Sand Island Wastewater Treatment Plant New In-Vessel Bioconversion Facility*. Prepared for the City and County of Honolulu, Department of Environmental Services. April 2003.

City & County of Honolulu, Department of Land Utilization. *Land Use Ordinance*.

City & County of Honolulu. *Development Plan*.

City & County of Honolulu. *General Plan*.

City & County of Honolulu. *Primary Urban Center Development Plan*.

Fukunaga & Associates, Inc. *Ala Moana Wastewater Pump Station Force Main #3 Revised Technical Approach*. Prepared for the City and County of Honolulu, Department of Design and Construction, November 2007.

Helber, Hastert & Kimura, Planners and R.M. Towill Corporation. *Honolulu Waterfront Master Plan*. Prepared for State of Hawaii, Office of State Planning. October 1989.

Oahu Metropolitan Planning Organization. *Congestion Management Process, State of Congestion on Oahu*. December 2006.

R.M. Towill Corporation, *Preliminary Route Alternatives Report, Ala Moana Wastewater Pump Station Force Main Modifications: New force Main No. 3*. Prepared for the City and County of Honolulu, Department of Design and Construction, January 2007.

R.M. Towill Corporation, *FEA Ala Moana Wastewater Pump Station (WWPS) Modification*. Prepared for the City and County of Honolulu, Department of Design and Construction, 2001.

State of Hawaii, Hawaii Community Development Authority. *Kakaako Community Development District Makai Area Plan*. October 2005.

State of Hawaii. *Hawaii Administrative Rules*.

State of Hawaii. *Hawaii Revised Statutes*.

United States Department of Agriculture Soil Conservation Service. *Soil Survey of Islands of Kauai, Oahu, Maui, Molokai, and Lanai, State of Hawaii*. August 1972.

Wilson Okamoto and Associates, Inc. *Hart Street Wastewater Pump Station Force Main Replacement FEA*. Prepared for the City and County of Honolulu, Department of Wastewater Mangement, 1996.

APPENDIX A

PRE-ENVIRONMENTAL ASSESSMENT COMMENTS AND RESPONSES



HAWAII COMMUNITY
DEVELOPMENT AUTHORITY



KAKAOKO

Linda Lingole
Governor

Jonathan W. Y. Lai
Chairperson

Anthony J. H. Ching
Executive Director

677 Ala Moana Boulevard
Suite 1001
Honolulu, Hawaii
96813

Telephone
(808) 587-2870
Facsimile
(808) 587-4150

E-Mail
contact@hcdweb.org
Web site
www.hcdweb.org

Ref. No.: ENGR 2.6.24

March 3, 2009

Mr. Wynn Miyamoto
Fukunaga & Associates, Inc.
1388 Kapiolani Boulevard, 2nd Floor
Honolulu, Hawaii 96814

Dear Mr. Miyamoto:

Re: Pre-Assessment Consultation for Draft Environmental Assessment
for Ala Moana Wastewater Pump Station Force Main #3

Thank you for sharing the pre-assessment consultation documents with the
Hawaii Community Development Authority ("HCDA"). We have reviewed the
materials and offer the following comments:

1. We support the Force Main #3 alignment along Ilalo Street.
However, Ilalo Street and Forrest Avenue are heavily used by
traffic getting out of Kakaako Makai as well as the container
yard. Therefore, we suggest that traffic issues be analyzed
adequately before finalizing the locations of the jacking shafts
along Ilalo Street.
2. As indicated in the proposed alignment drawing, it appears that
there will be two separate easements for Force Main #1 and
Force Main #3. We recommend that the alignment of Force
Main #3 be as close as possible to Force Main #1 to minimize
the easement required for both alignments.

We request that you keep HCDA informed on the progress of this project.

Sincerely,


Anthony J. H. Ching
Executive Director

AJHC/DN:ak

LINDA LINGOLE
GOVERNOR OF HAWAII



STATE OF HAWAII
DEPARTMENT OF HEALTH
P.O. BOX 3376
HONOLULU, HAWAII 96801

March 4, 2009

Mr. Wynn Miyamoto
Fukunaga & Associates, Inc.
1388 Kapiolani Blvd. 2nd Floor
Honolulu, Hawaii 96814

Dear Mr. Miyamoto:

Subject: Pre-Assessment Consultation For Draft Environmental Assessment (EA)
for Ala Moana Wastewater Pump Station Force Main #3
Honolulu, Oahu, Hawaii (approx. TMK (1) 2-1-015: 043 & 044)

Thank you for allowing us the opportunity to review the above subject project which
proposes the construction of a new wastewater force main system to supplement the
existing force main capacity and ensure adequate backup force main capacity serving
the Ala Moana Wastewater Pump Stations. We have the following comments and
information on the above subject property:

We are always in favor of construction that will improve or update our existing
wastewater systems to treat and dispose of domestic wastewater in a proper and
feasible way. We have no concerns at this time and offer our approval of the
project.

Should you have any questions, please contact the Planning & Design Section of the
Wastewater Branch at 586-4294.

Sincerely,


TOMAS S/SEE, P.E., CHIEF
Wastewater Branch

CHYOMIE LEMALLA FUKUNO, M.D.
DIRECTOR OF HEALTH

In reply, please refer to:
EAD / WR
LUD-02 0 015 043



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

OFFICE OF PLANNING

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

Ref. No. P-12461

March 4, 2009

Mr. Wynn Miyamoto
Fukunaga & Associates, Inc.
1388 Kapiolani Boulevard, 2nd Floor
Honolulu, Hawaii 96814

Dear Mr. Miyamoto:

This responds to the request for pre-assessment consultation for the draft environmental assessment for Ala Moana Wastewater Pump Station Force Main #3.

The project is to construct a new wastewater force main system to supplement the existing force main capacity for the Ala Moana Wastewater Pump Stations. As the proposed and preferred corridors of Force Main #3 cross the makai area of the Kakaako Community Development District (CDD), special management area (SMA) use approval is needed from the Office of Planning in accordance with Chapter 205A, Part II, Hawaii Revised Statutes (HRS), and Chapter 15-150, Hawaii Administrative Rules. Please also consult with the Department of Planning and Permitting, City and County of Honolulu, for SMA permit requirements for proposed project areas outside of the Kakaako CDD.

The State's Coastal Zone Management (CZM) Program encompasses the entire State. Chapter 205A, HRS, requires all actions to be consistent and in compliance with the CZM objectives and policies. In this regard, the environmental assessment for the proposed project should include an assessment relative to each of the statutory objectives and their supporting policies. We believe that this is important for satisfying the requirements of Chapter 343.

If there are any other questions about this, please feel free to contact Shichao Li of our CZM Program at 587-2841.

Sincerely,

Abby Seth Mayer
Director

LINDA UNGLE
DIRECTOR
THEODORE E. LIU
DIRECTOR
MARK K. ANDERSON
DIRECTOR
ABBEY SETH MAYER
DIRECTOR
OFFICE OF PLANNING

Telephone: (808) 587-2844
Fax: (808) 587-2834

BOARD OF WATER SUPPLY

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



March 5, 2009

MUFI HANREIMANN, Mayor
RANDALL Y. S. CHUNG, Chairman
SAMUEL T. HATA
LLOYD W. HAYES
ROBERT N. CLINOFF
JEFFREY S. CUDAMAY, Executive
BRENNON T. MORIYAMA, Executive
WAYNE M. HARRISO, P.E.
Manager and Chief Engineer
DEAN A. NAKANO
Deputy Manager and Chief Engineer

Mr. Wynn Miyamoto
Fukunaga & Associates, Incorporated
1388 Kapiolani Boulevard, 2nd floor
Honolulu, Hawaii 96814

Dear Mr. Miyamoto:

Subject: Your Letter Dated February 26, 2009 on the Pre-Assessment Consultation for
Draft Environmental Assessment Ala Moana Wastewater Pump Station Force
Main #3

Thank you for the opportunity to comment on the proposed force main system.

The construction drawings should be submitted for our approval.

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

Very truly yours,

KEITH S. SHIDA
Program Administrator
Customer Care Division

LINDA LINGLE
GOVERNOR
STATE OF HAWAII



STATE OF HAWAII
DEPARTMENT OF HAWAIIAN HOME LANDS
P.O. BOX 1879
HONOLULU, HAWAII 96818

MICHAEL KANE
CHAIRMAN
HAWAIIAN HOMES COMMISSION
KALIANA, H. PARK
DEPT OF HAWAIIAN HOME LANDS
ROBERT J. HALL
SECRETARY

March 11, 2009

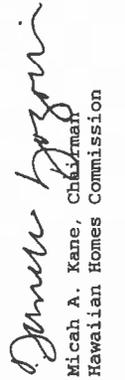
Fukunaga & Associates, Inc.
Attn: Mr. Wynn Miyamoto, Project Engineer
1388 Kapiolani Blvd., 2nd Floor
Honolulu, Hawaii 96814

Dear Mr. Miyamoto

Subject: Pre-Assessment Consultation for Draft
Environmental Assessment
Ala Moana Wastewater Pump Station Force
Main #3

Thank you for the opportunity to review the subject proposal.
The Department of Hawaiian Home Lands has no comment to offer at
this time. If you have any questions, please contact our
Planning Office at (808) 620-9480.

Aloha and mahalo,


Micah A. Kane, Chairman
Hawaiian Homes Commission

DEPARTMENT OF TRANSPORTATION SERVICES
CITY AND COUNTY OF HONOLULU
650 SOUTH KING STREET, 3RD FLOOR
HONOLULU, HAWAII 96813
Phone: (808) 768-8305 • Fax: (808) 523-1730 • Internet: www.honolulu.gov



MUFI HANNEMANN
MAYOR

WAYNE YOSHIOKA
DIRECTOR
SHARON ANTHONY
DEPUTY DIRECTOR

TP2109-301942R

March 11, 2009

Fukunaga & Associates, Inc.
1388 Kapiolani Blvd. 2nd floor
Honolulu, Hawaii 96814

Dear Mr. Miyamoto:

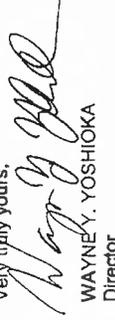
Subject: Pre-Assessment Consultation: Ala Moana Wastewater Pump
Station Force Main #3

This responds to your letter of February 26, 2009, requesting pre-consultation in
preparing for a Draft Environmental Assessment (DEA) related to the subject project.

We wish to reserve comment on the project pending the preparation of a traffic
assessment study for the document. Upon completion of the study, we request a copy
be forwarded to our department for review and comment.

Should you have any questions on the matter, you may contact Mr. Brian Suzuki,
AICP at 768-8349.

Very truly yours,


WAYNE Y. YOSHIOKA
Director

cc: James Burke, PTD
Mark Kikuchi, TE
Faith Miyamoto, RTD



STATE OF HAWAII
DEPARTMENT OF HEALTH
P. O. BOX 3378
HONOLULU, HI 96801-3378

Mr. Wynn Miyamoto
March 12, 2009
Page 2
03051PSS.09

March 12, 2009

Mr. Wynn Miyamoto
Fukunaga and Associates, Inc.
1388 Kapiolani Boulevard, 2nd Floor
Honolulu, Hawaii 96814

Dear Mr. Miyamoto:

**Subject: Pre-Assessment Consultation for Draft Environmental Assessment For
Ala Moana Wastewater Pump Station Force Main #3
Honolulu, Island of Oahu, Hawaii**

The Department of Health, Clean Water Branch (CWB), has reviewed the subject document and offers these comments on your project. Please note that our review is based solely on the information provided in the subject document and its compliance with Hawaii Administrative Rules (HAR), Chapters 11-54 and 11-55. You may be responsible for fulfilling additional requirements related to our program. We recommend that you also read our standard comments on our website at <http://www.hawaii.gov/health/environmental/env-planning/landuse/CWB-standardcomment.pdf>.

1. Any project and its potential impacts to State waters must meet the following criteria:
 - a. Antidegradation policy (HAR, Section 11-54-1.1), which requires that the existing uses and the level of water quality necessary to protect the existing uses of the receiving State water be maintained and protected.
 - b. Designated uses (HAR, Section 11-54-3), as determined by the classification of the receiving State waters.
 - c. Water quality criteria (HAR, Sections 11-54-4 through 11-54-8).
2. The Army Corps of Engineers should be contacted at (808) 438-9258 to see if this project requires a Department of the Army (DA) permit. Permits may be required for work performed in, over, and under navigable waters of the United States. Projects requiring a DA permit also require a Section 401 Water Quality Certification (WQC) from our office.
3. You may be required to obtain a National Pollutant Discharge Elimination System (NPDES) permit for discharges of wastewater, including storm water runoff, into State surface waters

(HAR, Chapter 11-55). For the following types of discharges into Class A or Class 2 State waters, you may apply for NPDES general permit coverage by submitting the applicable Notice of Intent (NOI) form:

- a. Storm water associated with construction activities, including excavation, grading, clearing, demolition, uprooting of vegetation, equipment staging, and storage areas that result in the disturbance of equal to or greater than one (1) acre of total land area. The total land area includes a contiguous area where multiple separate and distinct construction activities may be taking place at different times on different schedules under a larger common plan of development or sale. An NPDES permit is required before the start of the construction activities.
- b. Discharges of hydrotesting water.
- c. Discharges of construction activity dewatering.

You must submit a separate NOI form for each type of discharge at least 30 calendar days prior to the start of the discharge activity, except when applying for coverage for discharges of storm water associated with construction activity. For this type of discharge, the NOI must be submitted 30 calendar days before the start of construction activities. The NOI forms may be picked up at our office or downloaded from our website at <http://www.hawaii.gov/health/environmental/water/cleanwater/forms/genl-index.html>.

4. For types of wastewater discharges not covered by an NPDES general permit, you may need an NPDES individual permit. An application for an NPDES individual permit must be submitted at least 180 calendar days before the commencement of the discharge. The NPDES application forms may be picked up at our office or downloaded from our website at <http://www.hawaii.gov/health/environmental/water/cleanwater/forms/indiv-index.html>.
5. You must also submit a copy of the NOI or NPDES permit application to the State DLNR, State Historic Preservation Division (SHPD), or demonstrate to the satisfaction of the CWB that SHPD has or is in the process of evaluating your project. Please submit a copy of your request for review by SHPD or SHPD's determination letter for the project along with your NOI or NPDES permit application, as applicable.
6. Please note that all discharges related to the project construction or operation activities, whether or not NPDES permit coverage and/or Section 401 Water Quality Certification are required, must comply with the Water Quality Standards. Noncompliance with water quality requirements contained in HAR, Chapter 11-54, and/or permitting requirements, specified in HAR, Chapter 11-55, may be subject to penalties of \$25,000 per day per violation.

LINDA LINGLE
GOVERNOR



BRENDON T. MORIYAMA
DIRECTOR

Mr. Wynn Miyamoto
March 12, 2009
Page 3

03051PSS.09

7. That area of Honolulu Harbor is identified as a Low Priority, Category 3 and 5 water in the Clean Water Act, Section 303(d) list of impaired water bodies in Chapter IV of the 2006 State of Hawaii Water Quality Monitoring and Assessment Report.

Any NPDES permit(s) for discharges into these water bodies will incorporate the requirement for the Permittee to develop and implement a facility/project-specific Waste Load Allocation (WLA) implementation and monitoring plan when a Total Maximum Daily Load (TMDL) which specifies WLAs applicable to the Permittee's project is approved by the U.S. Environmental Protection Agency (EPA). The Permittee shall incorporate and implement the facility/project-specific WLA implementation and monitoring plan as part of the project's Storm Water Pollution Control Plan or Site-Specific Best Management Practices (BMPs) Plan, as appropriate. The facility/project-specific WLA implementation and monitoring plan shall include Data Quality Objectives (DQO) and Quality Assurance (QA) and Quality Control (QC) methods. The purpose and goal of DQO process can be found at <http://www.hartford.gov/dqo>. Information on the DOH WLA implementation and TMDLs are available on the DOH Environmental Planning Office website at <http://hawaii.gov/health/environmental/eny-planning/wqm/wqm.html> (see *TMDL Technical Reports and Implementation Plans for approved TMDLs are available here for download in pdf format*).

If you have any questions, please contact Mr. Shane Sumida of the Engineering Section, CWB, at 586-4309.

Sincerely,

ALEC WONG, P.E., CHIEF
Clean Water Branch

SS:cu

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
669 KUNIAHOLA STREET
HONOLULU, HAWAII 96813-5097

March 12, 2009

Mr. Wynn Miyamoto
Fulcunaga & Associates, Inc.
1388 Kapiolani Boulevard, 2nd Floor
Honolulu, Hawaii 96813

Dear Mr. Miyamoto:

Subject: Pre-Assessment Consultation for Draft Environmental Assessment
Ala Moana Wastewater Pump Station Force Main #3
City and County of Honolulu, Department of Design and Construction

Thank you for consulting us on the subject project. We have the following comments:

The Draft Environmental Assessment (EA) should discuss and evaluate project impacts on our State highway facilities (Ala Moana Boulevard, Nimitz Highway, and Sand Island Access Road) such as but not limited to:

1. construction vehicle and heavy equipment type that will be used at the job site.
Note: A permit is required from Highways Division to transport oversized equipment/overweight loads within our State highway facilities;
2. project impacts of applicant's operation in disposing excavated material, especially from the open trench excavation for the two 60-inch force main in the Sand Island State Recreation Area;
3. since the projected completion time for this project is year 2014 (2 ½ years of construction), there should be a monitoring maintenance program regarding leakage or falling debris/materials from truck loads on our highways;
4. inconvenience to the motoring public, bicyclists, pedestrians, joggers, park users etc.



STATE OF HAWAII'
OFFICE OF HAWAIIAN AFFAIRS
711 KAPIOLANI BOULEVARD, SUITE 500
HONOLULU, HAWAII 96813

5. dust/noise pollution;
6. possible inconvenience to embarking/departing ships passing through the Honolulu Harbor during the microtunneling operation under the harbor;
7. emergency plans in case Honolulu Harbor has to be closed; and
8. construction activity hours.

If there are any questions, please contact Robert Miyasaki, Systems Planning Engineer, Highways Division, at 587-6336.

Very truly yours,

A handwritten signature in black ink, appearing to read "Glenn M. Yasui".

GLENN M. YASUI
Administrator
Highways Division

March 13, 2009

Wynn Miyamoto
Fukunaga & Associates, Inc
1388 Kapiolani Blvd., 2nd Floor
Honolulu, HI 96814

RE: Pre-Assessment Consultation for Draft Environmental Assessment Ala Moana Wastewater Pump Station Force Main #3.

Aloha e Wynn Miyamoto,

The Office of Hawaiian Affairs (OHA) is in receipt of the above-mentioned letter, which is dated February 26, 2009. The City and County of Honolulu Department of Design and Construction proposes to construct a new wastewater force main system (FM #3) to supplement the current force main capacity, and ensure adequate backup force main capacity serving the Ala Moana Wastewater Pump Stations (WWPS) 1 and 2. The Ala Moana WWPS located in Kaka'ako currently serves nearly half of O'ahu's population from Niu Valley to Nu'uuanu and Kaka'ako through two force mains: FM #1 and FM#2. The new proposed force main system would run from the Ala Moana WWPS to the Sand Island wastewater treatment plant (WWTP). Areas that would be most affected by construction include Honolulu Harbor's Fort Armstrong Container Yard and Harbor Channel, and the Sand Island State Recreation Area. The project also proposes alternate routes for each segment, construction methods, easements, and economic impacts. OHA has reviewed the project and offers the following comments.

OHA has substantive obligations to protect the cultural and natural resources of Hawai'i for its beneficiaries, the people of this land. The Hawaii Revised Statutes mandate that OHA "[s]erve as the principal public agency in the State of Hawaii responsible for the performance, development, and coordination of programs and activities relating to native Hawaiians and Hawaiians; . . . and [t]o assess the policies and practices of other agencies impacting on native Hawaiians and Hawaiians, and conducting advocacy efforts for native Hawaiians and Hawaiians." (HRS § 10-3)

HRD09/4204



STATE OF HAWAII
DEPARTMENT OF HEALTH
ENVIRONMENTAL MANAGEMENT DIVISION
SOLID AND HAZARDOUS WASTE BRANCH
519 ALA MOANA BLVD., RT22
HONOLULU, HAWAII 96814

March 16, 2009 S0331LO

In reply, please refer to:
S0331LO

Wynn Miyamoto
March 13, 2009
Page 2

Chapter 343 of the Hawaii Revised Statutes (HRS) requires that the Draft EA include a Cultural Impact Assessment (CIA). The CIA should include information relating to the traditional and customary practices and beliefs of the area's Native Hawaiians, and the community should be involved in this assessment. Consideration must also be afforded to any individuals accessing the project area for constitutionally protected traditional and customary purposes, in accordance with the Hawai'i State Constitution, Article XII, Section 7.

OHA requests clarification whether an archaeological inventory survey for the project will be submitted to the State Historic Preservation Division for review and approval. If so, OHA should be allowed the opportunity to comment on the criteria assigned to any cultural or archaeological sites identified within the archaeological inventory survey.

We further request the applicant's assurances that should iwi kūpuna or Native Hawaiian cultural or traditional deposits be found during the construction of the project, work will cease, and the appropriate agencies will be contacted pursuant to applicable law.

OHA also asks if FM#3 is being constructed in the anticipation of increased input due to heightened construction and population increase in the surrounding area. If so, will the Sand Island WWTP be capable of supporting the potential additional wastewater, or will this facility also require upgrades? These answers should be included in the cumulative impact section of the forthcoming Draft Environmental Assessment (EA).

Thank you for the opportunity to comment, and we look forward to providing a more detailed review of the forthcoming Draft EA. If you have further questions, please contact Heidi Guth by phone at (808) 594-1962 or e-mail her at heidig@oha.org.

'O wau iho nō me ka 'ōia 'i'ō,

Clyde W. Nāmu'o
Administrator

Mr. Wynn Miyamoto
Fukunaga & Associates, Inc.
1388 Kapiolani Blvd., 2nd Floor
Honolulu, HI 96814

Dear Mr. Miyamoto:

SUBJECT: Draft Environmental Assessment
Ala Moana Wastewater Pump Station Force Main #3

Thank you for the opportunity to review and comment on this document. The Hazardous Waste, Solid Waste, and Underground Storage Tank Sections of the Department of Health (DOH), Solid and Hazardous Waste Branch have reviewed the document and offer the following comments.

Solid Waste

The alignment for the proposed Force Main #3 (FM #3) has three alternatives for the harbor crossing and two alternatives for the Sand Island segment. Our comments:

Harbor Crossing Alternative 1-Central Corridor

The Central Corridor appears to traverse the northern end of the Foreign Trade Zone to the Ala Moana Pump Station across one or both of TMK plats 1st, 2-1-59 and 1st, 2-1-60. No records of inactive municipal solid waste landfill sites were found on either plat.

Harbor Crossing Alternative 2-Mauka Corridor

The Mauka Corridor appears to traverse the Ewa end of TMK plat 1st, 2-1-1 and continue along Ala Moana Boulevard, ending at the Ala Moana Pump Station at the Ewa end of TMK plat 1st, 2-1-15. No records of inactive municipal solid waste landfill sites were found on either plat.

Mr. Wynn Miyamoto
March 16, 2009
Page 2

Harbor Crossing Alternative 3-Makai Corridor

The Makai Corridor traverses the southern end of the Foreign Trade Zone parcel and appears to proceed up Keawe Street to the Ala Moana Pump Station on TMK plats 1st, 2-1-59 and 1st, 2-1-60. No records of inactive municipal solid waste landfill sites were found on either plat.

Sand Island Alignment Alternatives

Both Sand Island Alignment Alternative segments of the proposed FM #3 appear to traverse the Sand Island Ash Dump located within the Sand Island State Recreational Area on TMK parcel 1st, 1-5-41:006. According to the URS study, "Oahu Inactive Landfills Relative Risk Evaluation: Final Report" (Dec. 2006), the multi-use Sand Island dumping area is located on the southern portion of Sand Island south of the sewage treatment plant and associated disposal pond, and is now a portion of Sand Island State Park. The study also states that the site received open dumping of ash and municipal solid waste since 1934, with ash dumping starting around 1965. A 1984 aerial photograph showed the State Recreational Area had been developed and that the disposal activity ceased. However, incidences of open dumping of household garbage, discarded scrap metal, cars, tires, refrigerators, burn areas, and other assorted solid wastes were observed in 1999 and 2000.

An Executive Summary and detailed information on the Sand Island Ash Dump, both from the URS study, are attached. In addition to the old landfill, Sand Island consists of fill material, so testing of the soil may be prudent prior to any reuse/disposal of the material. Finally, any waste generated from this project should be handled in accordance with state solid waste laws and regulations.

Hazardous Waste

Being that the old landfill is believed to contain ash, it is advised that any ash encountered during construction should be tested for hazardous wastes; and that appropriate measures be taken for the handling of any confirmed hazardous waste.

Underground Storage Tanks

The state regulations on underground storage tanks (USTs), Chapter 11-281, Hawaii Administrative Rules, became effective on January 28, 2000. The state UST regulations include, among other things, specific requirements that UST owners and operators must meet when installing and permanently closing their UST system and addressing releases from USTs.

Mr. Wynn Miyamoto
March 16, 2009
Page 3

In the event that USTs are discovered during the project, we have developed a guidance manual entitled "Technical Guidance Manual for Underground Storage Tank Closure and Release Response" (dated March 2000) to assist responsible parties and their consultants and contractors in complying with the state UST closure requirements and release response activities.

Copies of the technical manual and the state regulations are found on the DOH website at www.state.hi.us/doh/eh/shwb.

Please contact Mr. Lane Otsu of our Solid Waste Section at (808) 586-4226 with any questions regarding our comments.

Sincerely,



STEVEN Y.K. CHANG, P.E., CHIEF
Solid and Hazardous Waste Branch

Attachments (2)



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
LAND DIVISION

POST OFFICE BOX 631
HONOLULU, HAWAII 96809

March 16, 2009

Fukunaga & Associates, Inc.
1388 Kapiolani Blvd 2nd Floor
Honolulu, Hawaii 96814

Attention: Mr. Wynn Miyamoto

Ladies and Gentlemen:

Subject: Pre-Assessment Consultation for Draft Environmental Assessment for Ala Moana Wastewater Pump Station Force Main #3

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 Commission on Water Resource Management, Engineering Division, Division of Boating & Ocean Recreation, 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 587-0433. Thank you.

Sincerely,

Morris M. Atta

Morris M. Atta
Administrator



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
LAND DIVISION

POST OFFICE BOX 621
HONOLULU, HAWAII 96809

February 27, 2009

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

FROM: Morris M. Atta

SUBJECT: Pre-Assessment Consultation for Draft Environmental Assessment - Ala Moana Wastewater pump Station Force Main #3

LOCATION: Honolulu, Oahu

APPLICANT: Fukunaga & Associates, Inc.

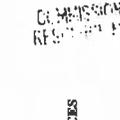
Transmitted for your review and comment on the above referenced document. We would appreciate your comments on this document. Please submit any comments by March 16, 2009.

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: _____
Date: _____



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
LAND DIVISION

POST OFFICE BOX 621
HONOLULU, HAWAII 96809

February 27, 2009

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

FROM: Morris M. Atta

SUBJECT: Pre-Assessment Consultation for Draft Environmental Assessment - Ala Moana Wastewater pump Station Force Main #3

LOCATION: Honolulu, Oahu

APPLICANT: Fukunaga & Associates, Inc.

Transmitted for your review and comment on the above referenced document. We would appreciate your comments on this document. Please submit any comments by March 16, 2009.

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: _____
Date: _____

RECEIVED
09 MAR 2 3:58
COMMISSION ON WATER RESOURCE MANAGEMENT



RECEIVED
LAND DIVISION
2009 MAR 11
LAURA M. TRIFLETTI
COMMISSIONER
WESLEY J. CHING
DEPUTY
JAMES A. FRAZIER
DEPUTY
CHYONG L. KIMURA, M.D.
DONNA FAY K. KYOGAKI, P.E.
KENTON J. MANNING, M.D., J.D.
KEN C. KAWAHARA, P.E.
COMMISSIONER

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT
P.O. BOX 621
HONOLULU, HAWAII 96809

March 11, 2009

REF: WMPFS FM3

TO: Morris Atta, Administrator
Land Division

FROM: Ken C. Kawahara, P.E., Deputy Director
Commission on Water Resource Management

SUBJECT: Pre-Assessment Consultation for Draft Environmental Assessment - Ala Moana Wastewater Pump
Station Force Main #3

FILE NO.: N/A
TMK NO.:

Thank you for the opportunity to review the subject document. The Commission on Water Resource Management (CWRM) is the agency responsible for administering the State Water Code (Code). Under the Code, all waters of the State are held in trust for the benefit of the citizens of the State, therefore, all water use is subject to legally protected water rights. CWRM strongly promotes the efficient use of Hawaii's water resources through conservation measures and appropriate resource management. For more information, please refer to the State Water Code, Chapter 174C, Hawaii Revised Statutes, and Hawaii Administrative Rules, Chapters 13-167 to 13-171. These documents are available via the internet at <http://www.hawaii.gov/dlnr/factm>.

Our comments related to water resources are checked off below.

- 1. We recommend coordination with the county to incorporate this project into the county's Water Use and Development Plan. Please contact the respective Planning Department and/or Department of Water Supply for further information.
- 2. We recommend coordination with the Engineering Division of the State Department of Land and Natural Resources to incorporate this project into the State Water Projects Plan.
- 3. We recommend coordination with the Hawaii Department of Agriculture (HDOA) to incorporate the reclassification of agricultural zoned land and the redistribution of agricultural resources into the State's Agricultural Water Use and Development Plan (AWUDP). Please contact the HDOA for more information.
- 4. We recommend that water efficient fixtures be installed and water efficient practices implemented throughout the development to reduce the increased demand on the area's freshwater resources. Reducing the water usage of a home or building may earn credit towards Leadership In Energy and Environmental Design (LEED) certification. More information on LEED certification is available at <http://www.usgbc.org/leed>. A listing of fixtures certified by the EPA as having high water efficiency can be found at <http://www.epa.gov/watersense/pdf/index.htm>.



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
LAND DIVISION
POST OFFICE BOX 621
HONOLULU, HAWAII 96809

February 27, 2009

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

FROM: Morris M. Atta
SUBJECT: Pre-Assessment Consultation for Draft Environmental Assessment - Ala Moana Wastewater Pump Station Force Main #3
LOCATION: Honolulu, Oahu
APPLICANT: Fukunaga & Associates, Inc.

Transmitted for your review and comment on the above referenced document. We would appreciate your comments on this document. Please submit any comments by March 16, 2009.

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: *Ken C. Kawahara*
Date: 3/5/09



RECEIVED
LAND DIVISION

2009 MAR -5 P 1:32

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



DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION

LD/Morris/Atta
Pre-Assessment/DEA/Ala Moana WWTPS#3
Oahu.662

COMMENTS

- () We confirm that the project site, according to the Flood Insurance Rate Map (FIRM), is located in Flood Zone _____.
- (X) Please take note that the project site according to the Flood Insurance Rate Map (FIRM), is located in Zones X and A. The National Flood Insurance Program (NFIP) does not regulate developments within Zone X, however, it has strict development regulations within Zone A as indicated in bold letters below.
- () Please note that the correct Flood Zone Designation for the project site according to the Flood Insurance Rate Map (FIRM) is _____.
- (X) Please note that the project must comply with the rules and regulations of the National Flood Insurance Program (NFIP) presented in Title 44 of the Code of Federal Regulations (44CFR), whenever development within a Special Flood Hazard Area is undertaken. If there are any questions, please contact the State NFIP Coordinator, Ms. Carol Tsun-Beam, of the Department of Land and Natural Resources, Engineering Division at (808) 587-0267.
- () Please be advised that 44CFR indicates the minimum standards set forth by the NFIP. Your Community's local flood ordinances may prove to be more restrictive and thus take precedence over the minimum NFIP standards. If there are questions regarding the local flood ordinances, please contact the applicable County NFIP Coordinators below:
 - (X) Mr. Robert Sumitomo at (808) 768-8097 or Mr. Marie Su Li at (808) 768-8098 of the City and County of Honolulu, Department of Planning and Permitting.
 - () Mr. Kelly Gomes at (808) 961-8327 (Hilo) or Mr. Kiran Emler at (808) 327-3530 (Kona) of the County of Hawaii, Department of Public Works.
 - () Mr. Francis Cerizo at (808) 270-7771 of the County of Maui, Department of Planning.
 - () Mr. Mario Antonio at (808) 241-6620 of the County of Kauai, Department of Public Works.
- () The applicant should include project water demands and infrastructure required to meet water demands. Please note that the implementation of any State-sponsored projects requiring water service from the Honolulu Board of Water Supply system must first obtain water allocation credits from the Engineering Division before it can receive a building permit and/or water meter.
- () The applicant should provide the water demands and calculations to the Engineering Division so it can be included in the State Water Projects Plan Update.
- () Additional Comments: _____
- () Other: _____

Should you have any questions, please call Ms. Suzie S. Agrann of the Planning Branch at 587-0258.

Signed:
ERIC T. HIRANO, CHIEF ENGINEER

Date: 3/5/09

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

FROM: Morris M. Ata
SUBJECT: Pre-Assessment Consultation for Draft Environmental Assessment - Ala Moana Wastewater pump Station Force Main #3
LOCATION: Honolulu, Oahu
APPLICANT: Fukunaga & Associates, Inc.

Transmitted for your review and comment on the above referenced document. We would appreciate your comments on this document. Please submit any comments by March 16, 2009.
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.
- (X) We have no comments.
- () Comments are attached.

Signed:
Date: 3/5/09



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
LAND DIVISION

POST OFFICE BOX 621
HONOLULU, HAWAII 96809

March 18, 2009



Fukunaga & Associates, Inc.
1388 Kapiolani Blvd 2nd Floor
Honolulu, Hawaii 96814

Attention: Mr. Wynn Miyamoto

Ladies and Gentlemen:

Subject: Pre-Assessment Consultation for Draft Environmental Assessment for Ala Moana
Wastewater Pump Station Force Main #3

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 Aquatic Resources 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 587-0433. Thank you.

Sincerely,

Charles M. Atta
Morris M. Atta
Administrator



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
LAND DIVISION

POST OFFICE BOX 621
HONOLULU, HAWAII 96809

February 27, 2009

MEMORANDUM

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

187
FROM: Morris M. Atta
SUBJECT: Pre-Assessment Consultation for Draft Environmental Assessment - Ala Moana
Wastewater pump Station Force Main #3

LOCATION: Honolulu, Oahu
APPLICANT: Fukunaga & Associates, Inc.

Transmitted for your review and comment on the above referenced document. We would appreciate your comments on this document. Please submit any comments by March 16, 2009.

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.
- (X) Comments are attached.

Signed: *Tommy Chee*
Date: *3/13/09*

A land disposition is required from the Land Board for this project.

LARUA L. LINGLE
GOVERNOR OF HAWAII



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
LAND DIVISION
POST OFFICE BOX 621
HONOLULU, HAWAII 96809

February 27, 2009

MEMORANDUM

- TO: DLMR 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

FROM: Morris M. Atta
 SUBJECT: Pre-Assessment Consultation for Draft Environmental Assessment - Ala Moana Wastewater pump Station Force Main #3
 LOCATION: Honolulu, Oahu
 APPLICANT: Fukunaga & Associates, Inc.

Transmitted for your review and comment on the above referenced document. We would appreciate your comments on this document. Please submit any comments by March 16, 2009.

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: Morris M. Atta
 Date: 3-17-09



LARUA K. THRELLEN
GOVERNOR OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

AQUATIC RESOURCES: 06-4731

DIRECTOR	
COM. FISHERY	
AQ RESERV	
AQ RES	
PLANNER	
STAFF SVCS	
RECLUT/HR	
STATISTICS	
APPLICED AID	
EDUCATION	
SECRETARY	
OFFICE SVCS	
TECH ASST	
ADM	<input checked="" type="checkbox"/>
Return to:	
No. Copies:	
Copies to:	
Date Due:	

Hawaiian Telcom

March 20, 2009

Fukunaga & Associates, Inc.
 1388 Kapiolani Boulevard, 2nd Floor
 Honolulu, Hawaii 96814
 Attention: Mr. Wynn Miyamoto

Dear Mr. Miyamoto:

Subject: **Pre-Assessment Consultation for Draft Environmental Assessment - Ala Moana Wastewater Pump Station Force Main #3**

Thank you for the opportunity to review and comment on the subject project in preparation of the Environmental Assessment. Hawaiian Telcom does not have any comments to offer at this time. Because Hawaiian Telcom has underground and aerial facilities within the project site, please continue to include us during the design stages of the project.

If you have any questions or require assistance in the future on this project, please call Les Loo at 546-7761.

Sincerely,

Lyette Yoshida
 Lyette Yoshida
 Section Manager - OSP Engineering
 Network Engineering & Planning

cc: File [Alakea/Kalihi]



HAWAII STEVEDORES, INC.

P.O. Box 2160 • Honolulu, Hawaii 96805-2160 • Phone (808) 527-3400

Wynn Miyamoto
Fukunaga & Associates, Inc.

March 25, 2009

Subject: Pre-Assessment Consultation for Draft Environmental Assessment
Ala Moana Wastewater Pump Station Force Main #3

Dear Ms. Miyamoto,

We have reviewed your letter dated February 26, 2009. The only concern Hawaii Stevedores, Inc. has with the proposed Harbor Crossing Alternative 1 – Central Corridor is the interruption which is likely to take place in our operation at Pier 1.

We would hope the Hawaii State Department of Transportation Harbor's Division would accommodate our needs to insure the flow of commerce is not interrupted during the construction period.

Sincerely,


Jeff Brennan
General Manager
Hawaii Stevedores, Inc.

CONTRACT STEVEDORES • TERMINAL SERVICES • EQUIPMENT MAINTENANCE

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) 768-8041
DEPT. WEB SITE: www.honolulu.gov • CITY WEB SITE: www.honolulu.gov



MUFI HANNEHANN
MAYOR

DAVID K. YANDIE
DIRECTOR
ROBERT M. SUMITOMO
DEPUTY DIRECTOR

2009/ELOG-489(MH)

March 25, 2009

Mr. Wynn Miyamoto
Fukunaga & Associates, Inc.
1388 Kapiolani Boulevard, 2nd Floor
Honolulu, Hawaii 96814

Dear Mr. Miyamoto:

Subject: Pre-Assessment Consultation for Draft Environmental Assessment, Ala Moana Wastewater Pump Station Force Main #3

In response to your request for comments of February 26, 2009 regarding the preparation of the Draft Environmental Assessment (DEA) for the subject project, we have the following comments:

1. The DEA should include a discussion of how the proposed project is consistent with the objectives and policies of Section V (Transportation and Utilities) in the City and County of Honolulu's General Plan. Refer to objectives B and C, and applicable policies of this referenced section.
2. The DEA should also discuss how the proposed project is consistent with Section 4.2.1 (Existing Conditions, Issues and Trends), Section 4.2.2 (Policies), and Section 4.2.3 (Guidelines of the Primary Urban Center Development Plan).
3. A Special Management Area Use Permit (SMP) would be needed, if work in the Special Management Area is outside existing utility easements, e.g. across Sand Island Recreation Area.
4. The proposed project may also require a Shoreline Setback Variance within shoreline areas. Therefore, the DEA should address the location of the current shoreline relevant to any proposed work.
5. The DEA should include a complete listing of required permits and approvals.



DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, HONOLULU DISTRICT
FORT SHAFTER, HAWAII 96864-6440

REPLY TO
ATTENTION OF:

Mr. Wynn Miyamoto
Fukunaga & Associates, Inc.
March 25, 2009
Page 2

March 26, 2009

Regulatory Branch

File No. POH-2009-92

Should you have any questions, please contact Matt Higashida of our staff at 768-8045.

Very truly yours,

for David K. Tanoué, Director
Department of Planning and Permitting

DKT:js

cc: Office of Environmental Quality Control
Department of Design and Construction

P:\DW\Function\EA-eis\2009Pm-Assessment\Consultation for DEA, Ala. Moana WWPS Force Main 3.doc

Mr. Wynn Miyamoto
Fukunaga and Associates, Inc.
1388 Kapiolani Blvd., 2nd Floor
Honolulu, Hawaii 96814

Dear Mr. Miyamoto:

This letter is in response to your request, received March 11, 2009, for early consultation comments on the preparation of the Draft Environmental Assessment (DEA) for the Ala Moana Wastewater Pump Station Force Main # 3 project located in Honolulu, Island of Oahu, Hawaii.

Based on the information furnished to our office, we understand there are two segments of the proposed Force Main (FM) #3 project, the Harbor Crossing Segment and the Sand Island Segment. You have provided three alternatives for the Harbor Crossing segment and two alternatives for the Sand Island segment. As all in-water work requiring Department of the Army (DA) authorization will require compliance with the April 10, 2008 Federal Mitigation Rule, you are encouraged to implement the alternatives with the least impact on the aquatic environment.

At a minimum, the proposed microtunnel boring under the Fort Armstrong Channel of the Honolulu Harbor for the Ala Moana Wastewater Pump Station Force Main # 3 Harbor Crossing Segment will require a DA Permit pursuant to Section 10 of the Rivers and Harbors Act (RHA) of 1899 (33 U.S.C. 403).

The DEA should include site-specific information pertaining to the occurrence of water resources and features within the project area, such as USGS designated blue-line streams and wetlands. The boundaries of wetlands that may exist on-site or adjacent to the project site should be delineated based on the procedures set forth in the Army Corps of Engineers' 1987 *Wetland Delineation Manual*. Similarly, for coastal areas and tidally influenced waters within the project area, the environmental document should clearly demarcate or otherwise identify the mean high water line and high tide line [as described at 33 C.F.R. 328.3(d)]. Within coastal areas within Hawaii we have established the mean higher high water mark as the ordinary high water mark for Corps jurisdiction. We recommend that your document identify both the mean higher high water mark as well as the certified shoreline or vegetation line so as to provide reference for the respective Federal and State jurisdictional boundaries with respect to existing and proposed improvements at the project location.



P.O. Box 3000
Honolulu, Hawaii 96802-3000

March 27, 2009

Fukunaga & Associates, Inc.
1388 Kapiolani Blvd., 2nd Floor
Honolulu, Hawaii 96814

Attention: Mr. Wynn Miyamoto
Gentlemen:

Subject: Draft Environmental Assessment
Pre-Assessment Consultation for Draft Environmental Assessment
Ala Moana Wastewater Pump Station Force Main #3

Please be advised that The Gas Company, LLC maintains underground utility gas mains in the project vicinity, which serves commercial and residential customers in the area. We would appreciate your consideration during the project planning and design process to minimize any potential conflicts with the existing gas facilities in the project area.

Thank you for the opportunity to comment on the Draft Environmental Assessment. Should there be any questions, or if additional information is desired, please call Stason Nishimura at 594-5689.

Sincerely,

Charles E. Calvet, P.E.
Manager, Engineering

CEC:hrs
09-121

The DEA should also describe all proposed construction activities that would result in the discharge (placement) of dredged and/ or fill material into jurisdictional waters pursuant to our authorities under Section 404 of the Clean Water Act (CWA) of 1972 (33 U.S.C. 1344) which will also require DA authorization. We suggest the DEA include the following information, as applicable:

- The source and volume of dredged or fill material;
- The method and timing for any discharge (placement) of dredged or fill material;
- The location of disposal sites for excavated materials from the microtunnel boring. If such sites are other than existing landfill operations, the DEA should also identify impacts associated with the disposal of such materials at those sites;
- An estimation of the total construction period; and
- A detailed description of the short- and long-term maintenance activities associated with Force Main #3.

We appreciate the opportunity to provide input into the preparation of your DEA. If you have any questions, please contact Ms. Meris Bantilan-Smith, of my Regulatory staff at 808-438-7701 (FAX: 808-438-4060) or by electronic mail at Meris.Bantilan-Smith@usace.army.mil and reference File No. POH-2009-92 with regards to this project.

Sincerely,

George P. Young, P.E.
Chief, Regulatory Branch



ALOHA TOWER DEVELOPMENT CORPORATION

TOFA Financial Center, Bishop Street Tower, 700 Bishop Street, Suite 1701, Honolulu, Hawaii 96813
Mailing Address: P.O. Box 2354, Honolulu, Hawaii 96804
Website: www.alohatower.org

LINDA LINGLE
Director
MELISSA PALMER
Assistant Director
SANDRA PFUND
Chief Executive Officer
Telephone: (808) 586-2521
Fac: (808) 586-2048
E-mail: ald@alohatower.org

LINDA LINGLE
DIRECTOR OF LAND AND NATURAL RESOURCES



**STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
LAND DIVISION**

POST OFFICE BOX 611
HONOLULU, HAWAII 96809

March 30, 2009

Mr. Wynn Miyamoto
Fukunaga & Associates, Inc.
1388 Kapiolani Blvd., 2nd Floor
Honolulu, Hawaii 96814

Dear Mr. Miyamoto,

Subject: Pre-Assessment Consultation for Draft Environmental Assessment
Ala Moana Wastewater Pump Station Force Main #3

Thank you for the opportunity to review the subject report.

On page 3, paragraph 2, it notes that, "The alignment remains within the City right of way on Ilalo Street...and avoids HCDA property." Please check with HCDA on that portion of Ilalo Street at the commencement of the force main line, that it has indeed been dedicated to the City. I worked on the dedication documents and my recollection is that the Ilalo Street dedication may have ended at Ilalo and Keawe Street. Many years have passed, and my memory may be bad, so if I am mistaken please forgive me. It would be good to check on this information, as it may affect your easement acquisition requirements.

I have no other comments, and appreciate the early collaboration that you have provided on this project.

Should you have any questions, please call me at 586-2521.

Sincerely,

Sandra Pfund

Fukunaga & Associates, Inc.
1388 Kapiolani Blvd 2nd Floor
Honolulu, Hawaii 96814

Attention: Mr. Wynn Miyamoto

Ladies and Gentlemen:

Subject: Pre-Assessment Consultation for Draft Environmental Assessment for Ala Moana
Wastewater Pump Station Force Main #3

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 Office of Conservation & Coastal Lands 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 587-0433. Thank you.

Sincerely,

Morris M. Aha
Administrator

GA-09-167



RECEIVED
LAND DIVISION

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
LAND DIVISION

POST OFFICE BOX 61
HONOLULU, HAWAII 96809

February 27, 2009

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

FROM: Morris M. Atta
 SUBJECT: Pre-Assessment Consultation for Draft Environmental Assessment - Ala Moana Wastewater Pump Station Force Main #3
 LOCATION: Honolulu, Oahu
 APPLICANT: Fukunaga & Associates, Inc.

Transmitted for your review and comment on the above referenced document. We would appreciate your comments on this document. Please submit any comments by March 16, 2009.

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: Dawn Hegger
 Date: 3/17/09

LAND LANCER
OFFICE OF LAND AND NATURAL RESOURCES
DEPARTMENT OF LAND AND NATURAL RESOURCES
HONOLULU, HAWAII 96809



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
OFFICE OF CONSERVATION AND COASTAL LANDS
POST OFFICE BOX 61
HONOLULU, HAWAII 96809

REF: OCCL:DH

MEMORANDUM

TO: Morris Atta, Administrator
 Land Division

FROM: Samuel J. Lemmo, Administrator
 Office of Conservation and Coastal Lands

THROUGH: Dawn Hegger, Senior Planner

REGARDING: Pre-Assessment Consultation for Draft Environmental Assessment - Ala Moana Wastewater Pump Station Force Main # 3, Honolulu, Oahu

The OCCL notes that the City and County of Honolulu, Department of Design and Construction is preparing the Draft Environmental Assessment (DEA) for the Ala Moana Wastewater Pump Station Force Main # 3. The purpose is to construct a new wastewater force main system to supplement the existing force main capacity, and ensure adequate backup force main capacity serving the Ala Moana Wastewater Pump Stations. Several alignment segments are proposed via Honolulu Harbor and Sand Island. For the Harbor crossing, three alternatives are proposed - Central Corridor, Mauka Corridor and Makai Corridor; the central corridor is considered the best alternative. The Sand Island alignment considers two alignments - Sand Island Recreation Area, and Sand Island Parkway.

The OCCL notes the Sand Island alignment is not located in the Land Use (SLU) Conservation District so we do not have comments. However, for the harbor crossing alternatives the land is located in the Conservation District, Resource subzone. Therefore, any proposed use within submerged lands would require that a Conservation District Use Application (CDUA) will need to be submitted, processed, and approved by the Board of Land and Natural Resources (BLNR).

The OCCL notes the proposed use is an identified land use, pursuant to Hawaii Administrative Rules (HAR), Section 13-5-22, P-6, PUBLIC PURPOSE USES, D-1, "land uses undertaken by the State of Hawaii or the counties to fulfill a mandated governmental function, activity, or service for public benefit and in accordance with public policy and the purpose of conservation district. Such land uses may include transportation systems, water systems, communications systems, and recreational facilities." The OCCL reminds notes that all land uses of Conservation District lands are subject to the discretion of the BLNR.

LAND LANCER
OFFICE OF LAND AND NATURAL RESOURCES
DEPARTMENT OF LAND AND NATURAL RESOURCES
HONOLULU, HAWAII 96809

REBECCA L. YELLS
PROPERTY DIRECTOR

KATHY C. KAWANABA
PROPERTY DIRECTOR

AGRICULTURE DIVISION
OFFICE OF CONSERVATION AND COASTAL LANDS
COMMISSION ON WATER-RESOURCE MANAGEMENT
OFFICE OF LAND AND NATURAL RESOURCES
OFFICE OF CONSERVATION AND COASTAL LANDS
OFFICE OF LAND AND NATURAL RESOURCES
OFFICE OF LAND AND NATURAL RESOURCES
OFFICE OF LAND AND NATURAL RESOURCES

Correspondence: 09-09-167

MAR 30 2009

[Handwritten signature]

RECEIVED
LAND DIVISION

2009 MAR -2 P 2: 22

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
LAND DIVISION

1357 KAPOLANI BLVD. / SUITE 1530 / HONOLULU, HI 96814 / PH. (808) 944-1821 / FAX (808) 946-9339 / office@fukunagaengineers.com
September 11, 2009

Meris Bantlian-Smith
U.S. Army Corps of Engineers, Honolulu District
Regulatory Branch
Fort Shafter, HI 96858-5440

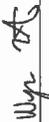
SUBJECT: Response to Comments on Pre-Assessment Consultation for
Draft Environmental Assessment : Ala Moana Wastewater Pump Station Force Main #3

Dear Ms. Bantlian-Smith,

Thank you for taking the time to comment on the preparation of the Draft Environmental Assessment for the Ala Moana Wastewater Pump Station Force Main #3 for the City and County of Honolulu Department of Design and Construction. Your comments have been addressed in the Draft EA or will be addressed during design.

Please call us at (808) 944-1821 if you have any questions.

Sincerely,
FUKUNAGA & ASSOCIATES, INC.


Wynai Miyamoto

JN/LKM/WRM/
cc Carl Arakaki, DDC

FUKUNAGA & ASSOCIATES, INC.



1357 KAPOLANI BLVD. / SUITE 1530 / HONOLULU, HI 96814 / PH. (808) 944-1821 / FAX (808) 946-9339 / office@fukunagaengineers.com
September 11, 2009

Mr. Morris Alta, Administrator
DLNR Land Division
1151 Punchbowl Street, Room 220
Honolulu, HI 96813

SUBJECT: Response to Comments on Pre-Assessment Consultation for
Draft Environmental Assessment : Ala Moana Wastewater Pump Station Force Main #3

Dear Mr. Alta:

Thank you for taking the time to comment on the preparation of the Draft Environmental Assessment for the Ala Moana Wastewater Pump Station Force Main #3 for the City and County of Honolulu Department of Design and Construction. Your comments have been addressed in the Draft EA or will be addressed during design.

Please call us at (808) 944-1821 if you have any questions.

Sincerely,
FUKUNAGA & ASSOCIATES, INC.


Wynai Miyamoto

JN/LKM/WRM/
cc Carl Arakaki, DDC

FUKUNAGA & ASSOCIATES, INC.



1357 KAPIOLANI BLVD. / SUITE 1530 / HONOLULU, HI 96814 / PH. (808) 944-1821 / FAX (808) 946-8339 / office@fukunagaengineers.com
September 11, 2009

Heidi Guth
Office of Hawaiian Affairs
711 Kapiolani Boulevard, Suite 500
Honolulu, HI 96813

SUBJECT: Response to Comments on Pre-Assessment Consultation for
Draft Environmental Assessment : Ala Moana Wastewater Pump Station Force Main #3

Dear Ms. Guth:

Thank you for taking the time to comment on the preparation of the Draft Environmental Assessment for the Ala Moana Wastewater Pump Station Force Main #3 for the City and County of Honolulu Department of Design and Construction. Your comments have been addressed in the Draft EA or will be addressed during design.

Please call us at (808) 944-1821 if you have any questions.

Sincerely,
FUKUNAGA & ASSOCIATES, INC.


Wynn Miyamoto

JN/LKM/WRM/
cc Carl Arakaki, DDC

FUKUNAGA & ASSOCIATES, INC.



1357 KAPIOLANI BLVD. / SUITE 1530 / HONOLULU, HI 96814 / PH. (808) 944-1821 / FAX (808) 946-8339 / office@fukunagaengineers.com
September 11, 2009

Anthony Ching, Executive Director
Hawaii Community Development Association
677 Ala Moana Boulevard, Suite 1001
Honolulu, HI 96813

SUBJECT: Response to Comments on Pre-Assessment Consultation for
Draft Environmental Assessment : Ala Moana Wastewater Pump Station Force Main #3

Dear Mr. Ching:

Thank you for taking the time to comment on the preparation of the Draft Environmental Assessment for the Ala Moana Wastewater Pump Station Force Main #3 for the City and County of Honolulu Department of Design and Construction. Your comments have been addressed in the Draft EA or will be addressed during design.

Please call us at (808) 944-1821 if you have any questions.

Sincerely,
FUKUNAGA & ASSOCIATES, INC.


Wynn Miyamoto

JN/LKM/WRM/
cc Carl Arakaki, DDC

FUKUNAGA & ASSOCIATES, INC.



1357 KAPOLANI BLVD. / SUITE 1530 / HONOLULU, HI 96814 / PH. (808) 944-1821 / FAX (808) 946-8339 / office@fukunagaengineers.com
September 11, 2009

Ms. Sandra S. Pfund, Chief Executive Officer
Alpha Tower Development Corporation
Pier 10 Terminal
600 Port Street, 2nd Floor
Honolulu, HI 96813

SUBJECT: Response to Comments on Pre-Assessment Consultation for
Draft Environmental Assessment : Ala Moana Wastewater Pump Station Force Main #3

Dear Ms. Pfund:

Thank you for taking the time to comment on the preparation of the Draft Environmental Assessment for the Ala Moana Wastewater Pump Station Force Main #3 for the City and County of Honolulu Department of Design and Construction. Your comments have been addressed in the Draft EA or will be addressed during design.

Please call us at (808) 944-1821 if you have any questions.

Sincerely,
FUKUNAGA & ASSOCIATES, INC.


Wynne Miyamoto

JN/LKM/WRM/
cc Carl Arakaki, DDC

FUKUNAGA & ASSOCIATES, INC.



1357 KAPOLANI BLVD. / SUITE 1530 / HONOLULU, HI 96814 / PH. (808) 944-1821 / FAX (808) 946-8339 / office@fukunagaengineers.com
September 11, 2009

Mr. Abbey Mayer, Director
Office of Planning
P.O. Box 2359
Honolulu, Hawaii 96804

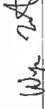
SUBJECT: Response to Comments on Pre-Assessment Consultation for
Draft Environmental Assessment : Ala Moana Wastewater Pump Station Force Main #3

Dear Mr. Mayer:

Thank you for taking the time to comment on the preparation of the Draft Environmental Assessment for the Ala Moana Wastewater Pump Station Force Main #3 for the City and County of Honolulu Department of Design and Construction. Your comments have been addressed in the Draft EA or will be addressed during design.

Please call us at (808) 944-1821 if you have any questions.

Sincerely,
FUKUNAGA & ASSOCIATES, INC.


Wynne Miyamoto

JN/LKM/WRM/
cc Carl Arakaki, DDC

FUKUNAGA & ASSOCIATES, INC.



1357 KAPOLANI BLVD. / SUITE 1530 / HONOLULU, HI 96814 / PH. (808) 944-1821 / FAX (808) 946-8039 / office@fukunagaengineers.com
September 11, 2009

Robert Miyasaki, Systems Planning Engineer
DOT Highways Division
869 Punchbowl Street, Room 513
Honolulu, HI 96813

SUBJECT: Response to Comments on Pre-Assessment Consultation for
Draft Environmental Assessment : Ala Moana Wastewater Pump Station Force Main #3

Dear Mr. Miyasaki:

Thank you for taking the time to comment on the preparation of the Draft Environmental Assessment for the Ala Moana Wastewater Pump Station Force Main #3 for the City and County of Honolulu Department of Design and Construction. Your comments have been addressed in the Draft EA or will be addressed during design.

Please call us at (808) 944-1821 if you have any questions.

Sincerely,
FUKUNAGA & ASSOCIATES, INC.


Wynn Miyamoto

JN/LKM/WRM/
cc Carl Arakaki, DDC

FUKUNAGA & ASSOCIATES, INC.



1357 KAPOLANI BLVD. / SUITE 1530 / HONOLULU, HI 96814 / PH. (808) 944-1821 / FAX (808) 946-8039 / office@fukunagaengineers.com
September 11, 2009

Rouen Liu, Project Management Division
Hawaiian Electric Company
P.O. Box 2750
Honolulu, HI 96740

SUBJECT: Response to Comments on Pre-Assessment Consultation for
Draft Environmental Assessment : Ala Moana Wastewater Pump Station Force Main #3

Dear Mr. Liu:

Thank you for taking the time to comment on the preparation of the Draft Environmental Assessment for the Ala Moana Wastewater Pump Station Force Main #3 for the City and County of Honolulu Department of Design and Construction. Your comments have been addressed in the Draft EA or will be addressed during design.

Please call us at (808) 944-1821 if you have any questions.

Sincerely,
FUKUNAGA & ASSOCIATES, INC.


Wynn Miyamoto

JN/LKM/WRM/
cc Carl Arakaki, DDC

FUKUNAGA & ASSOCIATES, INC.



1357 KAPOLANI BLVD. / SUITE 1530 / HONOLULU, HI 96814 / PH. (808) 944-1821 / FAX (808) 946-9339 / office@fukunagaengineers.com
September 11, 2009

Shane Sumida
DoH Clean Water Branch
919 Ala Moana Boulevard, Room 301
Honolulu, HI 96814

SUBJECT: Response to Comments on Pre-Assessment Consultation for
Draft Environmental Assessment : Ala Moana Wastewater Pump Station Force Main #3

Dear Mr. Sumida:

Thank you for taking the time to comment on the preparation of the Draft Environmental Assessment for the Ala Moana Wastewater Pump Station Force Main #3 for the City and County of Honolulu Department of Design and Construction. Your comments have been addressed in the Draft EA or will be addressed during design.

Please call us at (808) 944-1821 if you have any questions.

Sincerely,
FUKUNAGA & ASSOCIATES, INC.


Wynne Miyamoto

JNL/KM/WRM/
cc Carl Arakaki, DDC

FUKUNAGA & ASSOCIATES, INC.



1357 KAPOLANI BLVD. / SUITE 1530 / HONOLULU, HI 96814 / PH. (808) 944-1821 / FAX (808) 946-9339 / office@fukunagaengineers.com
September 11, 2009

Lane Otsu
DoH Solid and Hazardous Waste Branch
919 Ala Moana Boulevard, Room 212
Honolulu, HI 96814

SUBJECT: Response to Comments on Pre-Assessment Consultation for
Draft Environmental Assessment : Ala Moana Wastewater Pump Station Force Main #3

Dear Mr. Otsu:

Thank you for taking the time to comment on the preparation of the Draft Environmental Assessment for the Ala Moana Wastewater Pump Station Force Main #3 for the City and County of Honolulu Department of Design and Construction. Your comments have been addressed in the Draft EA or will be addressed during design.

Please call us at (808) 944-1821 if you have any questions.

Sincerely,
FUKUNAGA & ASSOCIATES, INC.


Wynne Miyamoto

JNL/KM/WRM/
cc Carl Arakaki, DDC

FUKUNAGA & ASSOCIATES, INC.



1357 KAPOLANI BLVD. / SUITE 1500 / HONOLULU, HI 96814 / PH. (808) 944-1821 / FAX (808) 946-9339 / office@fukunagaengineers.com

September 11, 2009

Mr. Russell Takata, Chief
DoH Indoor and Radiological Health Branch
591 Ala Moana Boulevard, Room 133
Honolulu, HI 96813

SUBJECT: Response to Comments on Pre-Assessment Consultation for
Draft Environmental Assessment : Ala Moana Wastewater Pump Station Force Main #3

Dear Mr. Takata:

Thank you for taking the time to comment on the preparation of the Draft Environmental Assessment for the Ala Moana Wastewater Pump Station Force Main #3 for the City and County of Honolulu Department of Design and Construction. Your comments have been addressed in the Draft EA or will be addressed during design.

Please call us at (808) 944-1821 if you have any questions.

Sincerely,
FUKUNAGA & ASSOCIATES, INC.


Wynn Miyamoto

JN/LKM/WRM/
cc Carl Arakaki, DDC

FUKUNAGA & ASSOCIATES, INC.



1357 KAPOLANI BLVD. / SUITE 1500 / HONOLULU, HI 96814 / PH. (808) 944-1821 / FAX (808) 946-9339 / office@fukunagaengineers.com

September 11, 2009

Brian Suzuki
Department of Transportation Services
650 South King St, 3rd Floor
Honolulu, HI 96813

SUBJECT: Response to Comments on Pre-Assessment Consultation for
Draft Environmental Assessment : Ala Moana Wastewater Pump Station Force Main #3

Dear Mr. Suzuki:

Thank you for taking the time to comment on the preparation of the Draft Environmental Assessment for the Ala Moana Wastewater Pump Station Force Main #3 for the City and County of Honolulu Department of Design and Construction. Your comments have been addressed in the Draft EA or will be addressed during design.

Please call us at (808) 944-1821 if you have any questions.

Sincerely,
FUKUNAGA & ASSOCIATES, INC.


Wynn Miyamoto

JN/LKM/WRM/
cc Carl Arakaki, DDC

FUKUNAGA & ASSOCIATES, INC.



1357 KAPOLANI BLVD. / SUITE 1530 / HONOLULU, HI 96914 / PH. (809) 944-1821 / FAX (809) 946-8339 / office@fukunagaengineers.com
September 11, 2009

Mat Higashida
Department of Planning and Permitting
650 South King St.
Honolulu, HI 96813

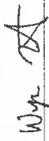
SUBJECT: Response to Comments on Pre-Assessment Consultation for
Draft Environmental Assessment - Ala Moana Wastewater Pump Station Force Main #3

Dear Mr. Higashida:

Thank you for taking the time to comment on the preparation of the Draft Environmental Assessment for the Ala Moana Wastewater Pump Station Force Main #3 for the City and County of Honolulu Department of Design and Construction. Your comments have been addressed in the Draft EA or will be addressed during design.

Please call us at (808) 944-1821 if you have any questions.

Sincerely,
FUKUNAGA & ASSOCIATES, INC.


Wynn Miyamoto

JN/LKM/WRM/
cc Carl Arakaki, DDC

FUKUNAGA & ASSOCIATES, INC.

