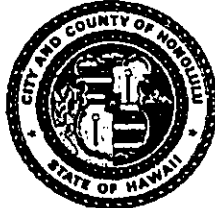


DEPARTMENT OF PUBLIC WORKS  
**CITY AND COUNTY OF HONOLULU**  
650 SOUTH KING STREET  
HONOLULU, HAWAII 96813

FRANK F. FASI  
MAYOR



RECEIVED

'91 JUN 21 P 4:22

OFF. OF ENVIRONMENTAL  
QUALITY CONTROL

SAM CALLEJO  
DIRECTOR AND CHIEF ENGINEER

C. MICHAEL STREET  
DEPUTY DIRECTOR

June 21, 1991  
WEP 91-181

Office of Environmental Quality Control  
State of Hawaii  
220 South King Street, 4th Floor  
Honolulu, Hawaii 96813

Gentlemen:

**Moana Park Wastewater Pump Station Modifications**  
TMK: 1st Div. 2-3-37: 10

In pursuant of Chapter 343, HRS, this letter is a Notice of Negative Declaration for the Moana Park Wastewater Pump Station Modification, Honolulu, Oahu, Hawaii. This notice of determination was based on an environmental assessment prepared by Belt Collins & Associates, after consulting with other agencies and individuals. Four (4) copies of the Final Environmental Assessment are attached. The pertinent data for this notice are as follows.

1. Proposing Agency - Department of Public Works, City and County of Honolulu.
2. Proposed Action - The proposed project consists of the modification and modernization of the existing Moana Park Wastewater Pump Station .

The existing pump station building, equipment, and piping are over 50 years old and have exceeded their useful life. The current capacity of the pump station is inadequate to meet the present flow demands. The pump station was built in 1938 and is in need of modifications to both the equipment within it and the structure that houses it. A standby engine generator and structure to house it are also proposed as an emergency provision in the case of a power failure.

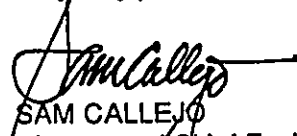
The project site is located in the Ala Moana Park, Honolulu, Oahu, Hawaii. The proposed project will be constructed within the existing pump station parcel.

The project site encompasses an area of approximately 0.11 acres and is identified by the following Tax Map Key designation:

TMK: First Division, 2-3-37: 10

3. Determination - After reviewing the Environmental Assessment prepared for the project and consulting with other government agencies, community organizations and individuals, we have determined that the proposed project will not have a significant impact on the environment, and an Environmental Impact Statement is not required.
4. Reasons Supporting Determination - Reasons and conditions supporting the determination are based on the following criteria. The proposed project will not:
  - affect any rare or endangered flora or fauna;
  - destroy any archaeological, historical or cultural resources;
  - displace any families or commercial establishments;
  - degrade environmental quality;
  - conflict with the State's environmental policies and goals expressed in Chapter 343, HRS.
5. Contact Person - Ed Sakamoto  
Division of Wastewater Management  
Department of Public Works  
650 South King Street, 14th Floor  
Honolulu, Hawaii 96813-3017  
Telephone No. 523-4325

Very truly yours,

  
SAM CALLEJO  
Director and Chief Engineer

Attachments: OEQC Form for Publication  
EA, 4 copies

cc: Department of General Planning w/attachment  
Department of Land Utilization w/attachment  
Department of Land and Natural Resources w/attachment

1991-07-08-0A-FEA

FILE COPY

ENVIRONMENTAL ASSESSMENT  
FOR  
\* MOANA PARK WASTEWATER PUMP STATION MODIFICATIONS \*  
HONOLULU, OAHU, HAWAII

TAX MAP KEY:  
1st Div. 2-3-37: Parcel 10

This document was prepared pursuant to Chapter 343, H.R.S.

PROPOSING AGENCY: Department of Public Works  
City and County of Honolulu  
650 South King Street  
Honolulu, Hawaii 96813

RESPONSIBLE OFFICIAL: C. Michael Street  
for SAM CALLEJO  
Director and Chief Engineer

6/13/91  
Date

Prepared by:  
Belt Collins & Assoc.

Prepared for:  
Division of Wastewater Management

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## CHAPTER I INTRODUCTION

### Purpose of Document

This document provides information on the proposed action and assesses its impacts on the environment. The proposed action is being proposed by the Division of Wastewater Management, Department of Public Works, City and County of Honolulu. Because this is an agency action, this environmental assessment has been prepared in accordance with Section 11-200-9 of the Environmental Impact Statement Rules, Title 11, Chapter 200, Department of Health, State of Hawaii, pursuant to Chapter 343, Hawaii Revised Statutes.

### Project Location and Proposed Action

The City is proposing to modify and modernize the Moana Park Wastewater Pump Station, (WWPS), in order to better service the community. The capacity of the WWPS will be designed to handle an average flow of 0.68 million gallons per day, (MGD) and a peak flow of 2.0 MGD. Also to be provided will be a standby engine generator to be housed in a separate structure, as an emergency provision in the case of a power failure.

The project is located at the east end of Ala Moana Park adjacent to Ala Moana Boulevard. The project parcel is identified by the following Tax Map Key designation, First Division, 2-3-37-10 and has an area of about 4,782 sq. ft. Refer to Figure 1.

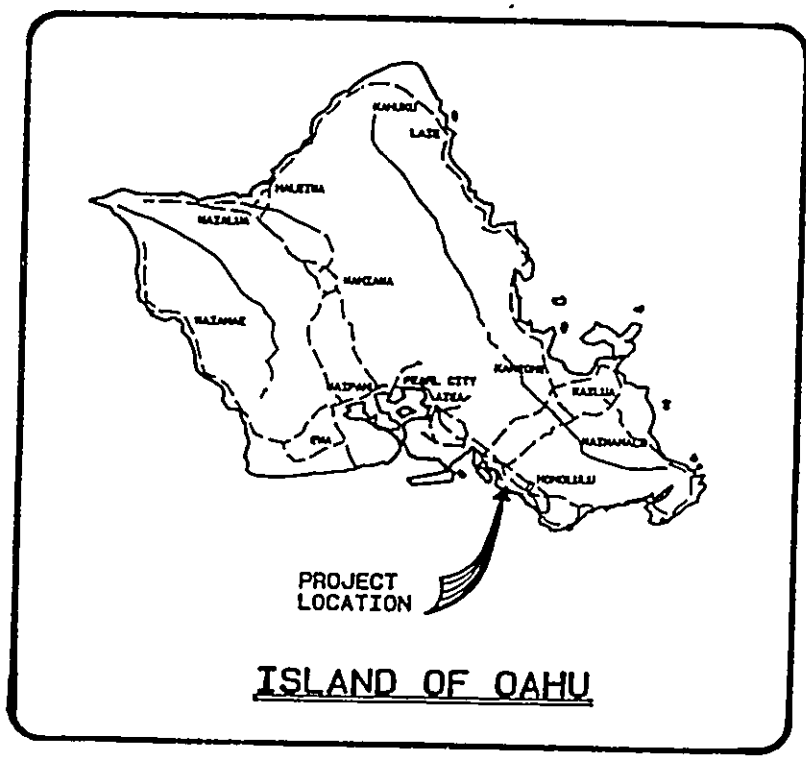
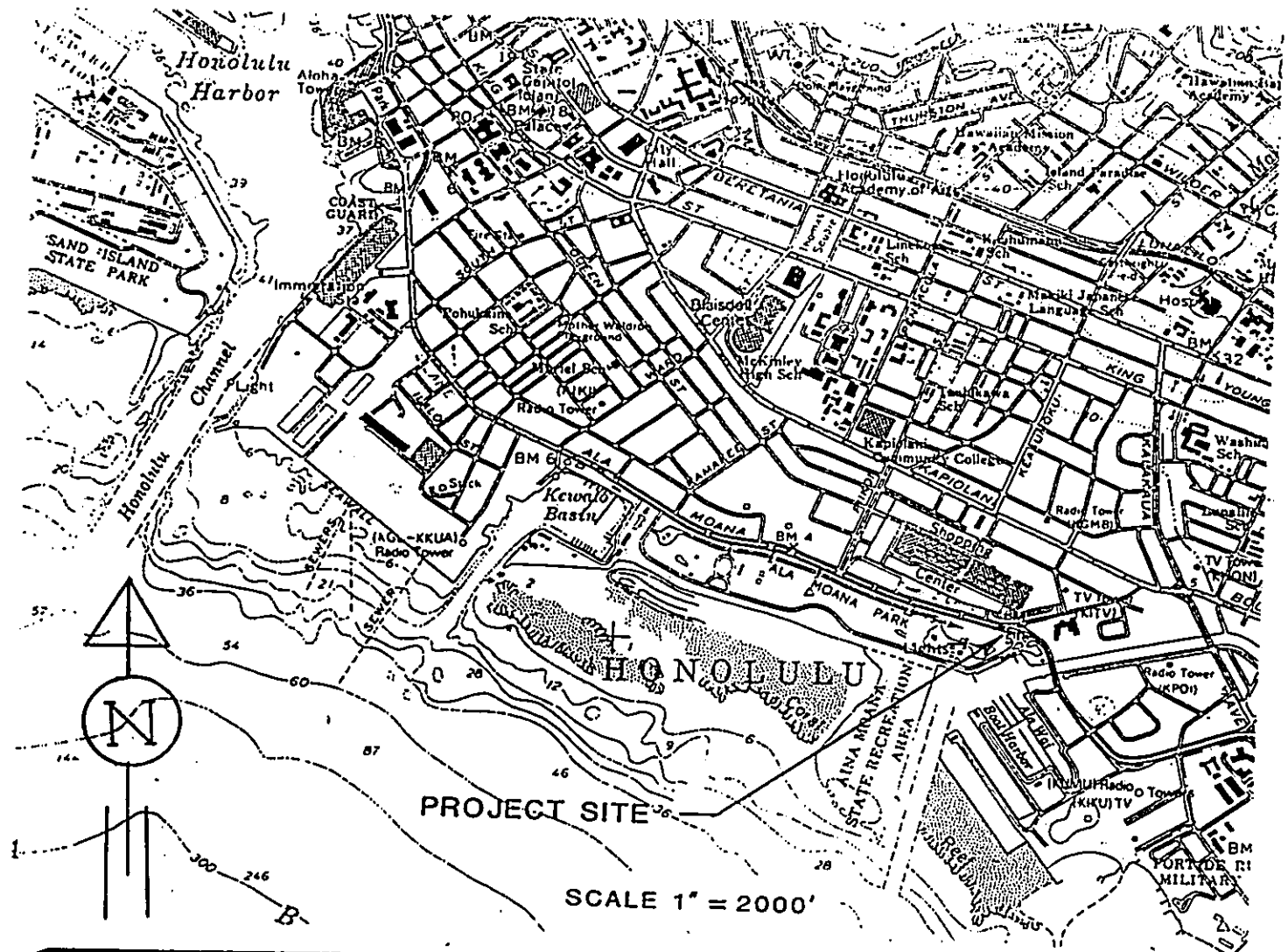
### Agencies Consulted

#### State Agencies

- Department of Land and Natural Resources
- Department of Health
- Office of Environmental Quality Control
- Department of Business and Economic Development
- Office of State Planning, Coastal Zone Management Program
- Department of Transportation

#### County Agencies

- Department of Parks and Recreation
- Department of Land Utilization



**LOCATION MAP**

Figure 1

MOANA PARK WASTEWATER PUMP STATION
------------------------------------



County Agencies (continued)

- Department of General Planning
- Department of Transportation Services
- Board of Water Supply

Public Utilities

- Hawaiian Electric Company
- Hawaiian Telephone Company

Others

- Ala Moana/Kakaako Neighborhood Board No. 11

## CHAPTER II

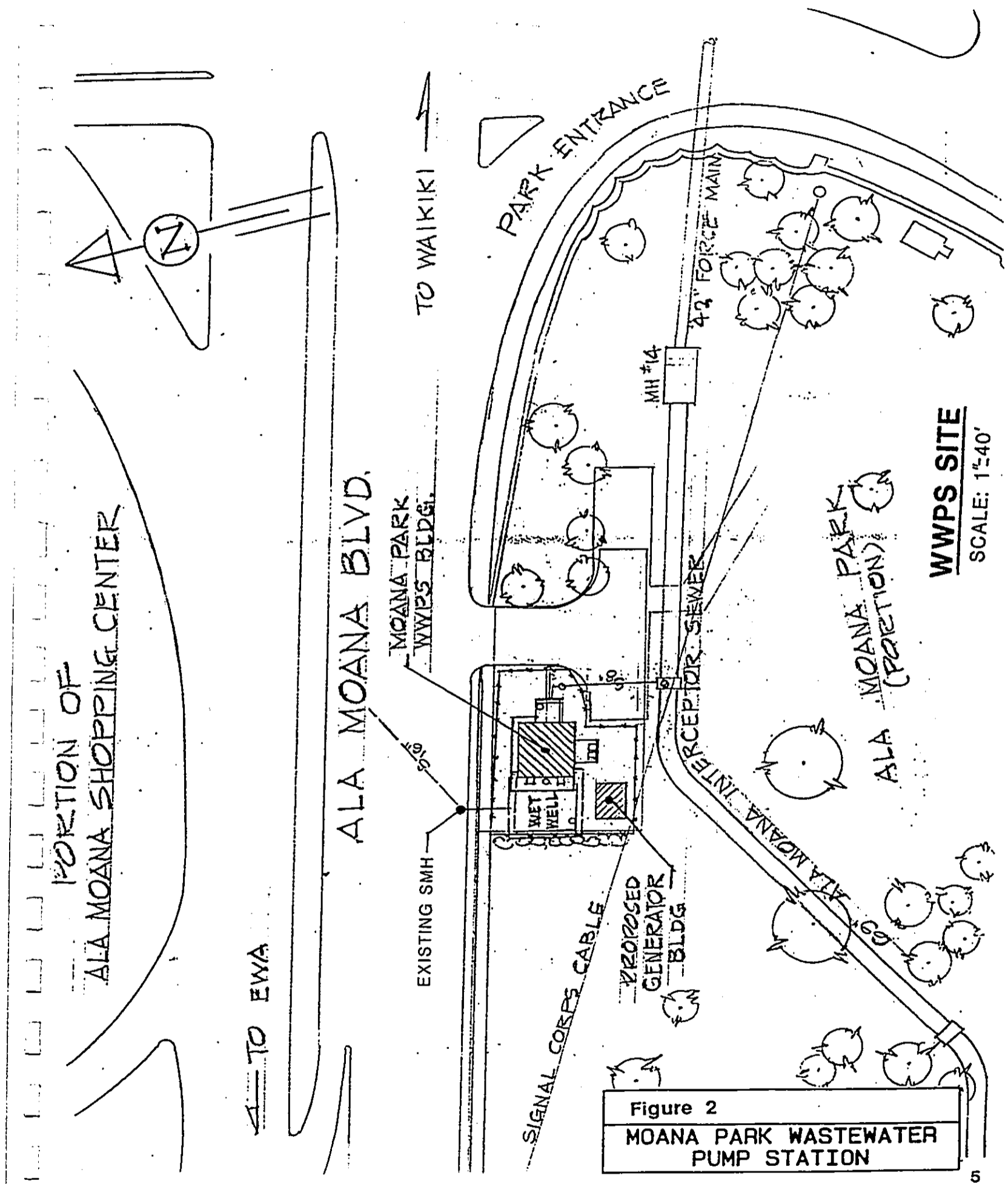
### DESCRIPTION OF THE PROPOSED ACTION

#### Project Description

The proposed project involves the modification of the existing Moana Park Wastewater Pump Station. The building, equipment and piping are over 50 years old and have exceeded their useful life. The current capacity of the pump station is inadequate to meet the present flow demands. The pump station was built in 1938 and is in need of modifications to both the equipment within it and the structure that houses it. A standby engine generator and structure to house it are also proposed as an emergency provision in the case of a power failure. Refer to Figures 2 to 5 for site plan, sections and plans of the existing WWPS.

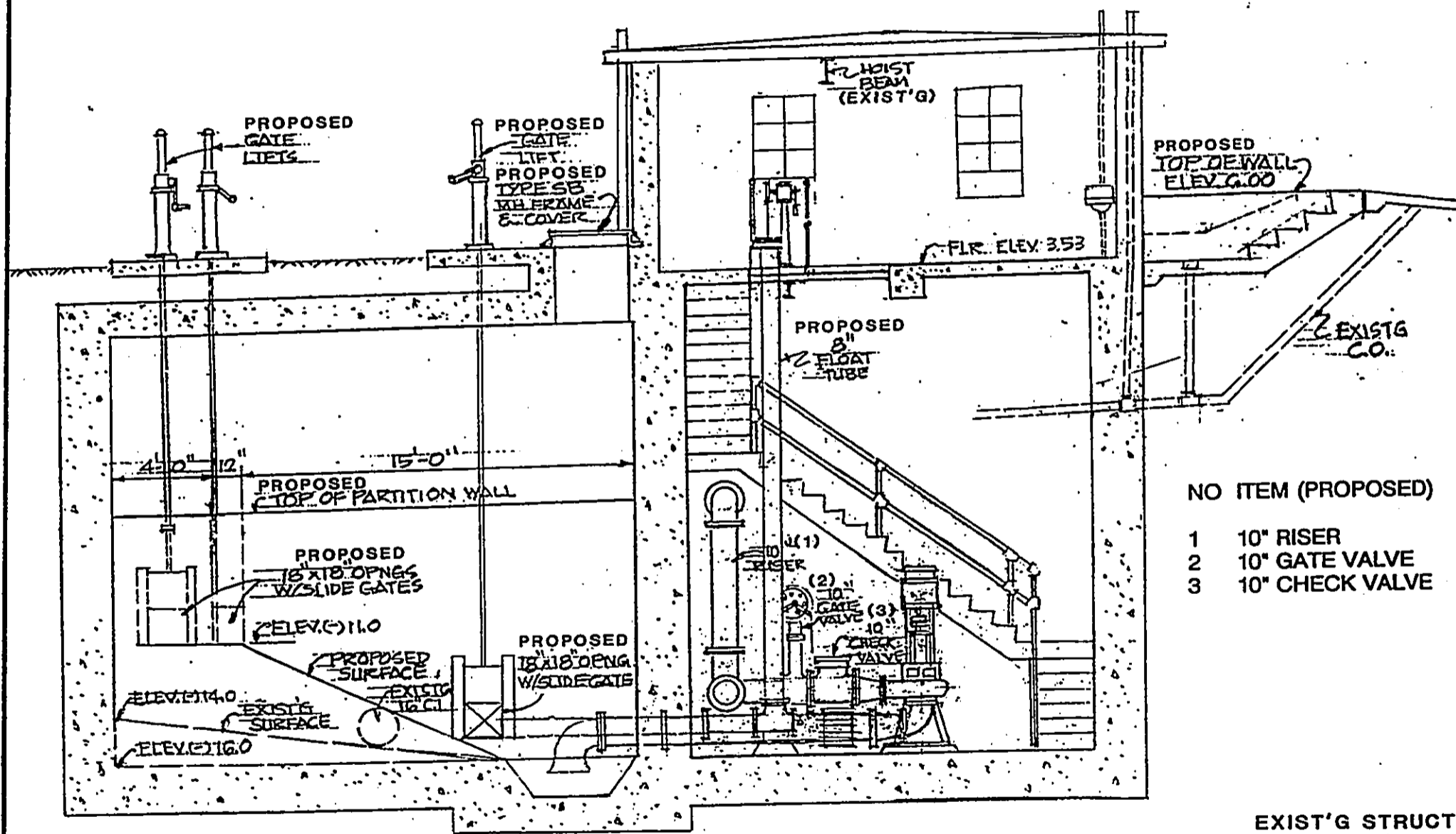
The following is a list of the proposed modifications to the existing pump station:

- 1) Replace the two existing 0.9 MGD raw sewage pumps with new pumps and all process piping and appurtenances to handle a 2.0 MGD peak flow. Also install new electric hoist and trolley for the new pumps.
- 2) Install a new force main together with a new flow tube and all fittings. Demolish existing flow tube vault after the new one is in operation.
- 3) Replace existing sump pump, discharge piping and controls. New sump pump shall be submersible type.
- 4) Replace existing ventilation system and the controls.
- 5) Replace existing raw sewage pump float switches with Healy-Ruff 940 Roto-trol or equal. Locate new float tube and controller inside the facility.
- 6) Replace existing potable water piping. Provide additional stand pipe stations. Install 1.5" potable water system for wet well cleaning.
- 7) Provide new telemetering, supervisory control, recording and alarm system for facility. Systems to be incorporated into the City's Barrington SCADA system located at the Sand Island WWTP.
- 8) Replace existing doors, windows and frames with aluminum. Reroof existing superstructure. Replace existing toilet fixtures and partitions. Paint all exposed interior and exterior surfaces. Replace entire existing electrical system for motors, lighting, receptacles, etc.



**WWPS SITE**  
SCALE: 1"=40'

Figure 2  
MOANA PARK WASTEWATER  
PUMP STATION



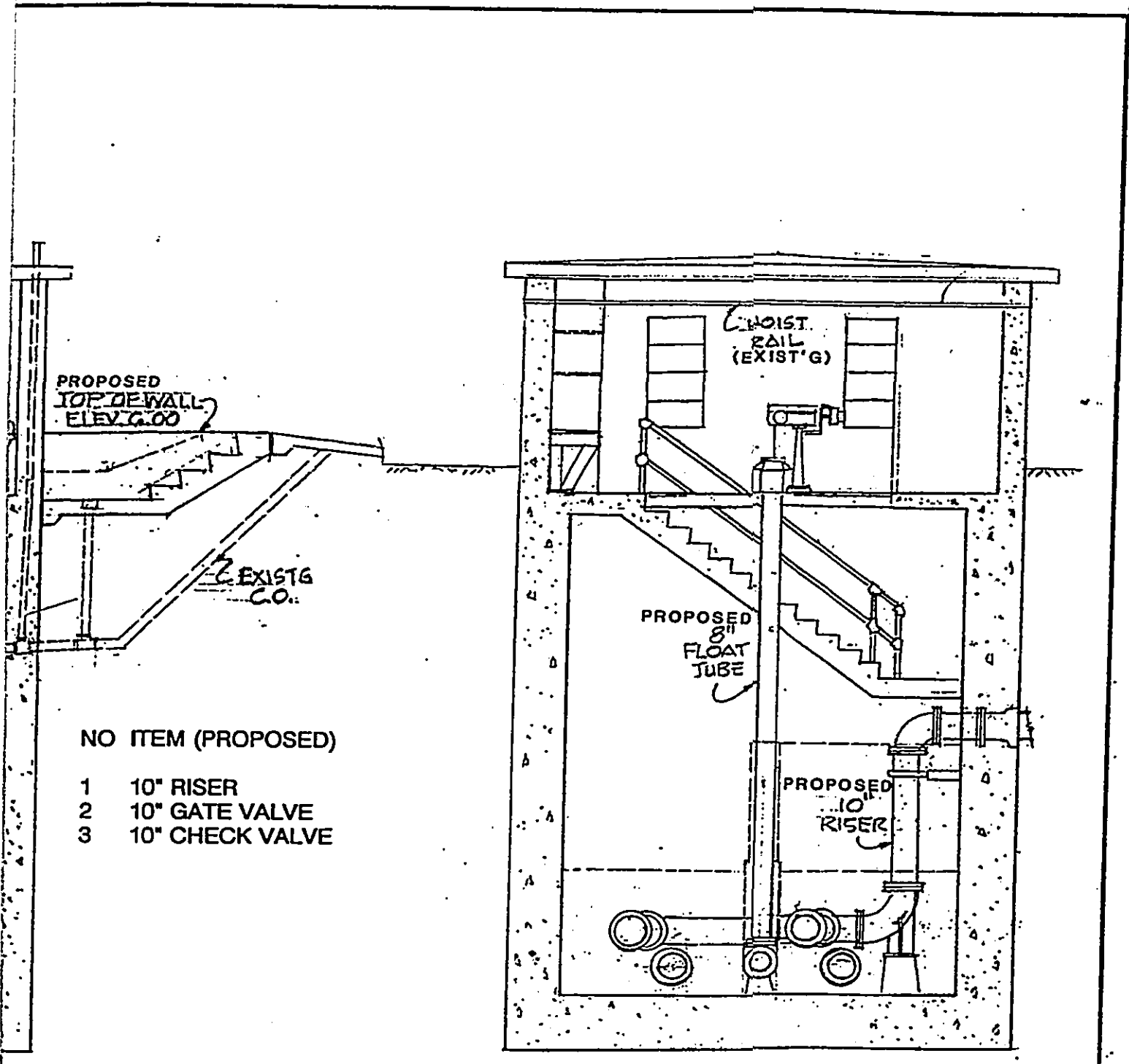
- NO ITEM (PROPOSED)
- 1 10" RISER
  - 2 10" GATE VALVE
  - 3 10" CHECK VALVE

**SECTION  
FACING MAUKA WALL**

SCALE: 3/16" = 1'-0"

**NOTE:**  
UNLESS INDICATED OTHERWISE, ALL STRUCTURAL ELEMENTS AND MECH EQUIPMENT SHOWN ARE EITHER, PRO TO BE INSTALLED OR EXISTING ITEM ARE TO REMAIN.

EXIST'G STRUCT



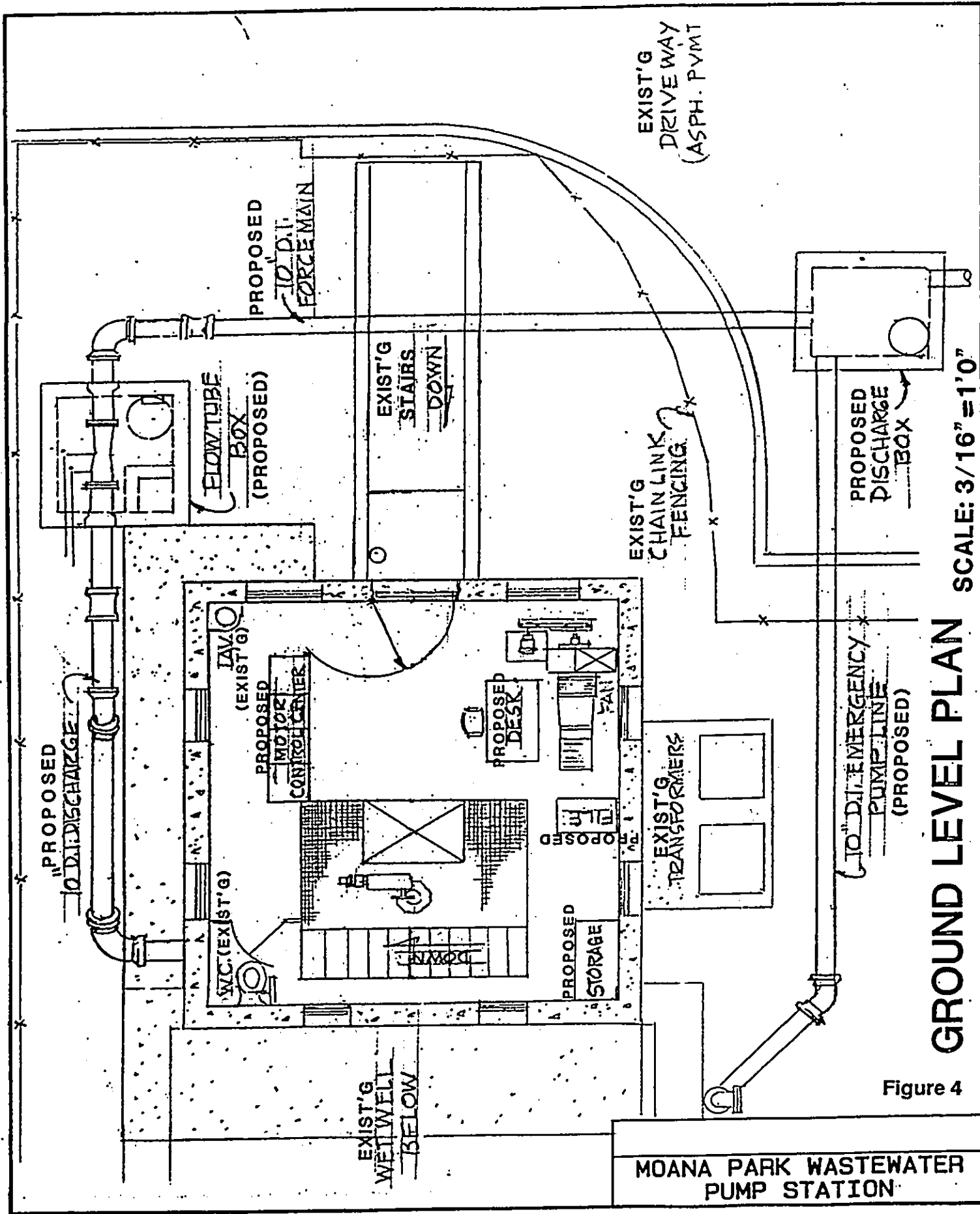
EXIST'G STRUCTURE

**SECTION  
FACING EWA WALL**

INDICATED OTHERWISE, ALL  
ELEMENTS AND MECHANICAL  
SHOWN ARE EITHER, PROPOSED  
OR EXISTING ITEMS THAT  
MAIN.

Figure 3

**MOANA PARK WASTEWATER  
PUMP STATION**

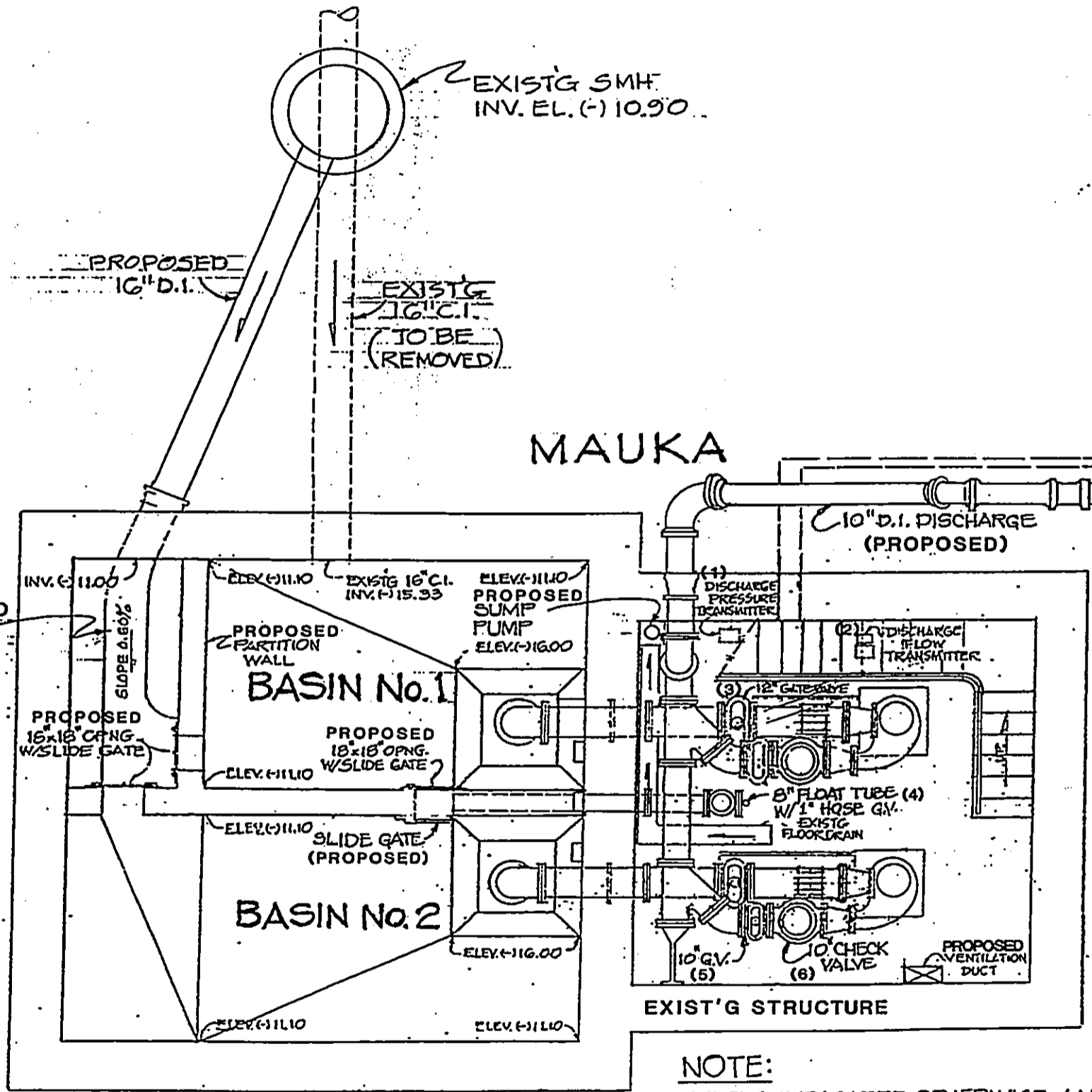


**GROUND LEVEL PLAN**

SCALE: 3/16" = 1'0"

Figure 4

MOANA PARK WASTEWATER PUMP STATION

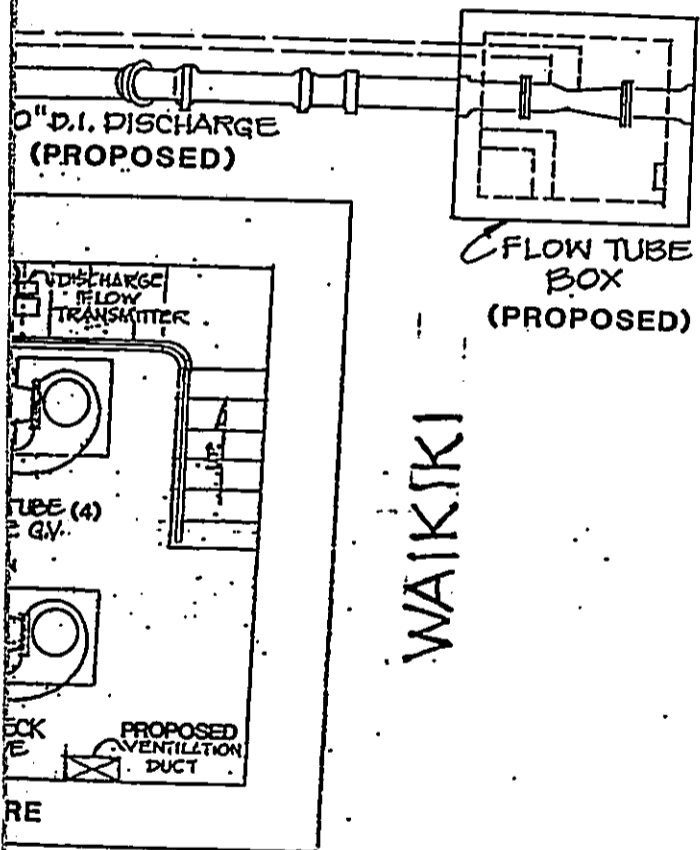
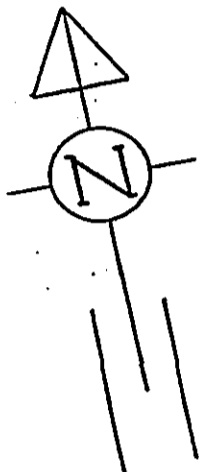


**PLAN**  
**WET-WELL & PUMP ROOM**

SCALE: 3/16"=1'-0"

**NOTE:**  
 UNLESS INDICATED OTHERWISE, ALL STRU  
 ELEMENTS AND MECHANICAL EQUIPMENT  
 ARE EITHER PROPOSED TO BE INSTALLED  
 EXISTING ITEMS THAT ARE TO REMAIN.

- | NO | ITEM (PROPOSED)                |
|----|--------------------------------|
| 1  | DISCHARGE PRESSURE TRANSMITTER |
| 2  | DISCHARGE FLOW TRANSMITTER     |
| 3  | 12" GATE VALVE                 |
| 4  | 8" FLOAT TUBE W/ 1" HOSE G.V.  |
| 5  | 10" G.V.                       |
| 6  | 10" CHECK VALVE                |



UNLESS OTHERWISE SPECIFIED, ALL STRUCTURAL AND MECHANICAL EQUIPMENT SHOWN IS PROPOSED TO BE INSTALLED OR TO REMAIN.

Figure 5

MOANA PARK WASTEWATER PUMP STATION



- 9) Enlarge wet well entry manholes. Slope flat areas of wet well to preclude accumulation of grit. Modify inlet piping and split wet well for maintenance purposes.
- 10) Clean, repair and coat interior of the wet well with corrosion resistant materials. Replace wet well ladder rungs with stainless steel rungs.
- 11) Install emergency provisions for the station in case of a commercial power failure. This will include the construction of a building to house the emergency generator and fuel oil tank which shall be located underground.

#### **Project Objective**

The objective of the proposed project is to modify and modernize the Moana Park pump station to better serve the community. The building, equipment and piping are over 50 years old and have exceeded their useful life. The current capacity of the pump station is inadequate to meet today's flow demand. The present capability of the facility is limited to a peak flow of 0.9 MGD. The capacity of the pump station will be expanded to accommodate an average flow of 0.68 MGD and a peak flow of 2.0 MGD.

The Ala Moana Shopping Center and the Ala Moana Park areas are the major tributaries to the pump station. A small portion of the Nauru Project, which is currently under construction and will consist of 1,760 condominium units, office and retail space, lies within the pump station's service area. Refer to Figure 6 for map of WWPS service area.

#### **Development Timetable**

Project construction is estimated to require approximately a year and a half after all of the required government approvals and permits are obtained. Construction is anticipated to begin in April 1992.

#### **Estimated Development Cost**

The estimated construction cost of the project is approximately \$1.54 million.



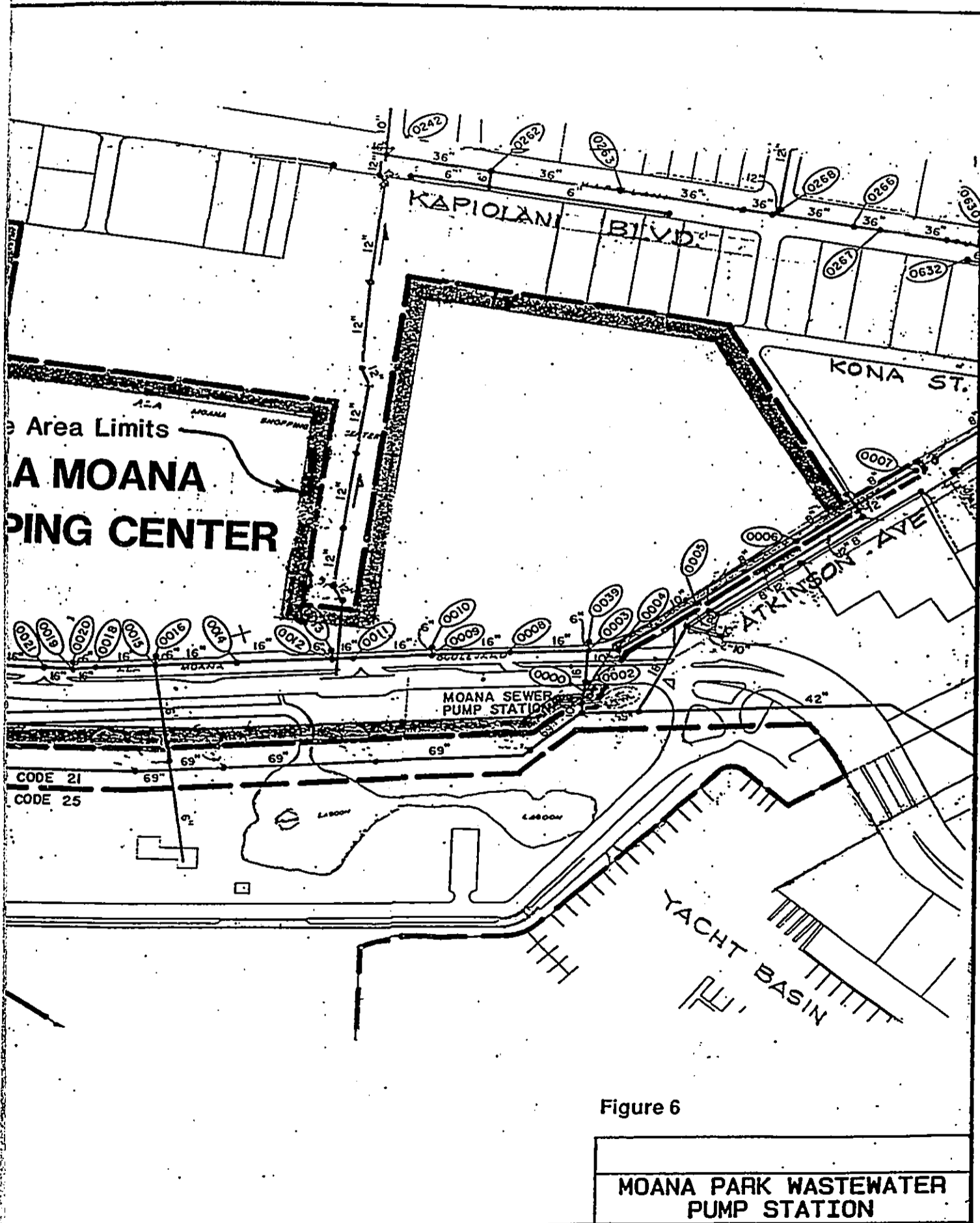


Figure 6

MOANA PARK WASTEWATER  
PUMP STATION

CHAPTER III  
LAND USE POLICIES

State Land Use Policies

The parcel is currently designated Urban according to the State Land Use District Boundary maps. Land Use regulation of this area is under the jurisdiction of the City and County of Honolulu. The proposed improvements are consistent with the Urban land use designation of this parcel.

City and County of Honolulu Land Use Policies

The City and County of Honolulu has land use control jurisdiction over the site. The following are land use policies that affect the property.

**General Plan**

The General Plan Objectives and Policies that apply are as follows:

*Utilities*

*Objectives*

*To meet the needs of the people of Oahu for environmentally sound systems of waste disposal. To maintain a high level of service for all utilities.*

*Policies*

*Provide safe, efficient, and environmentally sensitive waste-collection and waste-disposal services. Provide improvements to utilities in existing neighborhoods to reduce substandard conditions.*

**Development Plan**

The Development Plan Land Use Map designates the parcel as PF, Public Facility. The proposed improvements are consistent with the Development Plan land use designation.

**Zoning**

The Land Use Ordinance (LUO) map designates the site as P-2, General Preservation Zone. The proposed project is a permitted use on the site.

**Special Management Area**

The project site is located within the Special Management Area and is therefore subject to the SMA Rules and Regulations of the City and County of Honolulu.

**Summary of Required Land Use Permits and Approvals**

The proposed action requires only a Special Management Area Permit.

CHAPTER IV  
ENVIRONMENTAL CHARACTERISTICS

**Existing Land Use**

The existing land use is a City and County of Honolulu wastewater pump station. This facility was constructed in 1938 and has been in use since then. The pump station is surrounded by Ala Moana Park on the south, east and west boundaries and Ala Moana Boulevard on the north boundary. The park is heavily used for activities such as picnicking, jogging, various sports, crafts fairs, etc. Ala Moana Boulevard is a major thoroughfare into and out of Waikiki.

Negligible impact is expected on the existing land use since the public facility will not affect or change any of the existing adjacent land uses.

**Physiography**

The project site is relatively level, varying in elevation from 4.1 feet to 4.6 feet with a parcel area of 4,782 sq. ft. Refer to Figure 7 for topographic map.

Excavation and grading work will be done, but no significant impact is expected since the project site will remain level.

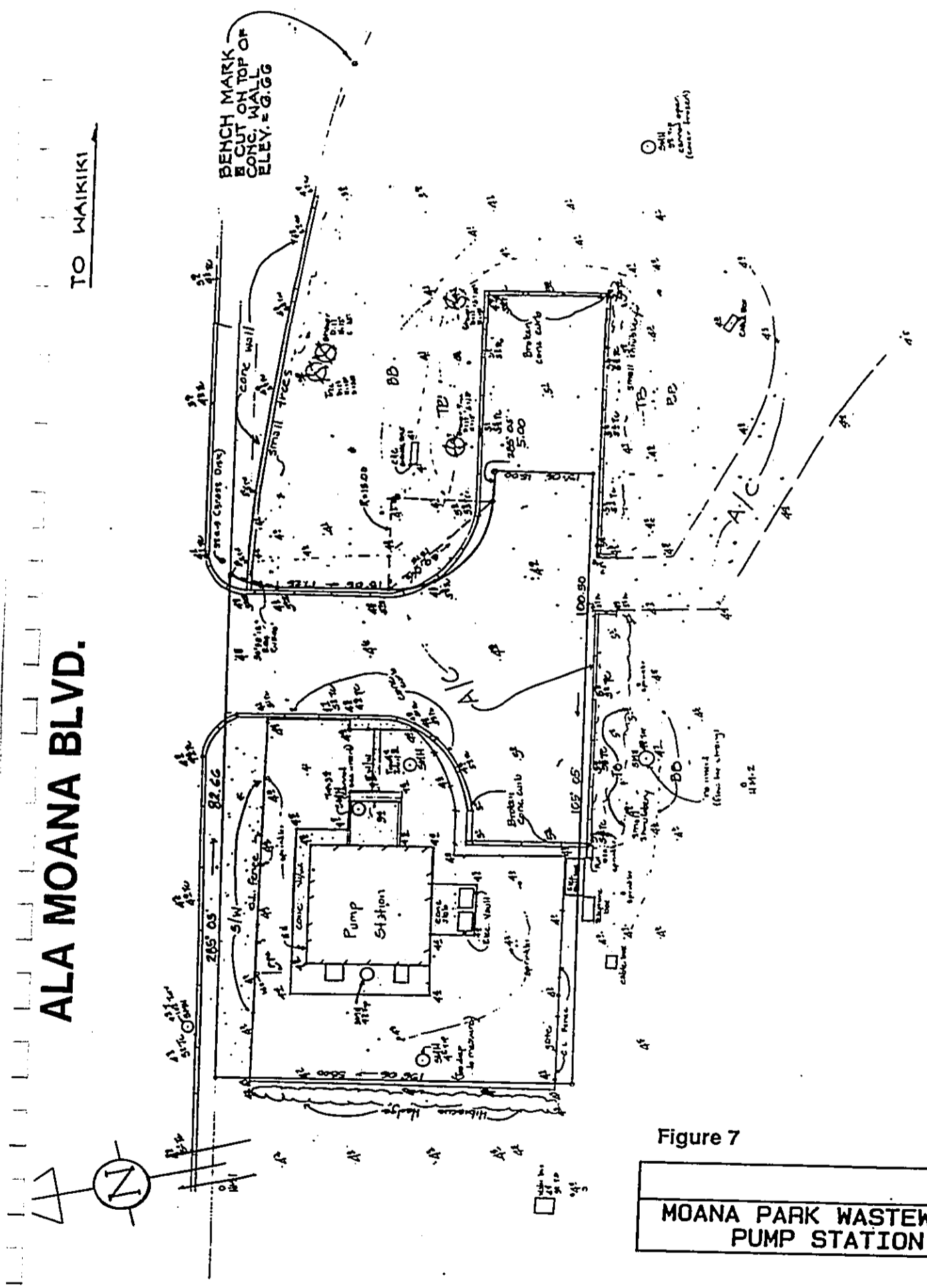
**Climate**

The climate of the Honolulu area in which the project site is located is sub-tropical. The project site receives abundant sunshine during most of the year. The northeasterly tradewinds are the prevailing winds during most of the year. The average annual rainfall is approximately 24 inches. The average daily temperature range is between the high 70's to the high 80's.

The project will not affect the climate, thus no impact will result from the proposed improvements.

**Nearshore and Marine Environment**

The project site is located approximately 250 feet from the Ala Wai Boat Harbor and 1,500 feet from Ala Moana beach and the ocean. The harbor is used to moor sailboats and small pleasure crafts. The beach and shoreline are used for swimming, fishing and other ocean-related recreational activities.



ALA MOANA BLVD.

TO WAIKIKI

BENCH MARK  
CUT ON TOP OF  
CONC. WALL  
ELEV. = 6.66

**TOPOGRAPHIC SURVEY**

SCALE: 1"=20'

SURVEY DONE BY:  
TOWILL, SHIGEOKA & ASSOCIATES INC.  
Date: January 24, 1990

Figure 7

MOANA PARK WASTEWATER  
PUMP STATION

The project site is located a reasonable distance away from the harbor and an even greater distance away from the beach, so no impact is expected on the marine environment of the area. Since the project site is level and distant from the shoreline, no run off from the site is expected to directly reach the harbor and beach.

#### Surface Water and Drainage

There is no surface water feature on the site. Drainage on the project site is via ground percolation. The minute size of the project site is expected to generate only a minimal amount of surface runoff. Most of this runoff is expected to be absorbed into the surrounding land by ground percolation. The remainder of the runoff either flows into the adjacent pond or into the Ala Moana Boulevard underground drainage system.

No significant runoff impacts are expected on surrounding areas because of the small size of the project parcel involved.

#### Geology and Soils

No soil investigation was done for this specific project as of this submittal. According to the USDA, Soil Conservation Service, the soil on the parcel is FL, Filled Land, mixed. This land type occurs mostly in Honolulu and Pearl Harbor and is generally adjacent to the ocean. It consists of areas filled with material dredged from the ocean or hauled from nearby sites, garbage, and general material from other sources. This land type is used primarily for urban development.

There will be no significant adverse impact to the soils and geology of the project site. Some excavation will be involved in the proposed improvements but negligible impact is anticipated since the soil type of the site is a mixture of fill material.

#### Flora

The ground cover surrounding the WWPS is grass. Hibiscus, bougainvillea, sea grape and orchid trees are planted along the fence line. No rare or endangered species of flora is found on the proposed project site.

No impact on plants and trees is expected since construction will be done only in the grassed areas and the grass will be replanted once construction is completed.



### Fauna

The site is frequented by birds, such as pigeons, common myna, golden plovers and sparrows which are common throughout the island. No rare or endangered species of fauna is found on the proposed project site.

No impact on fauna is expected since birds are highly mobile and would avoid the project site while construction is under way. Once construction is completed, birds will return to the area and resume their normal activity.

### Historical, Cultural and Archaeological Resources

There are no historical, cultural, and archaeological resources on the project site. The area has been previously disturbed by construction of the wastewater pump station facility. If any sites are found, proper mitigating measures will be taken and coordinated with the State of Hawaii, Department of Land and Natural Resources, Historic Preservation Office.

### Visual Character

The project site occupies a small area on the makai side of Ala Moana Boulevard near the diamond head entrance to Ala Moana Beach Park. A low one-story building is currently on this site and is proposed for modification. The site is inconspicuous because of its low stature and is hardly noticed by motorists on Ala Moana Boulevard.

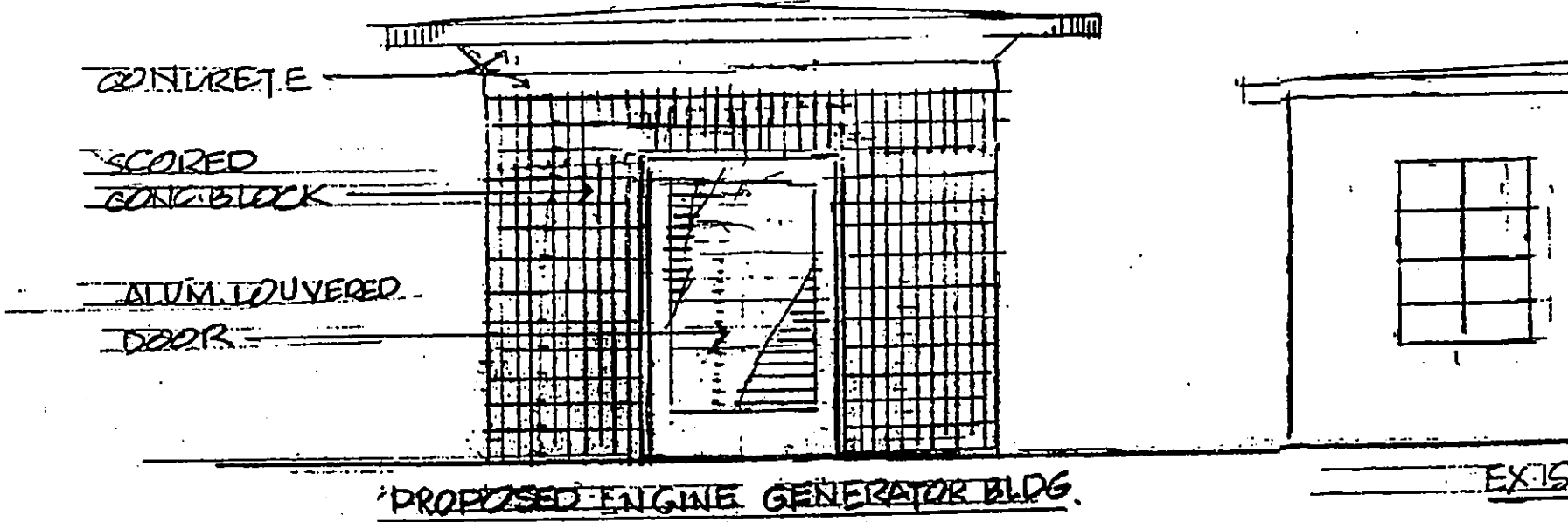
The new generator building will be a low one story building similar to the existing pump station building. The new generator building site will be located behind the pump station and will be even less noticeable by passing motorists than the pump station. Refer to Figure 8 and 9 for architectural elevations of the emergency generator building. Mitigation measures discussed in Chapter VIII will be used to minimize visual impact of the proposed project on the surrounding area.

No significant adverse visual impact is expected because the proposed improvements will be primarily within the existing facility site. A temporary impact on the visual character is expected during the construction of the proposed improvements because the construction equipment and work will be noticeable to passing motorists.

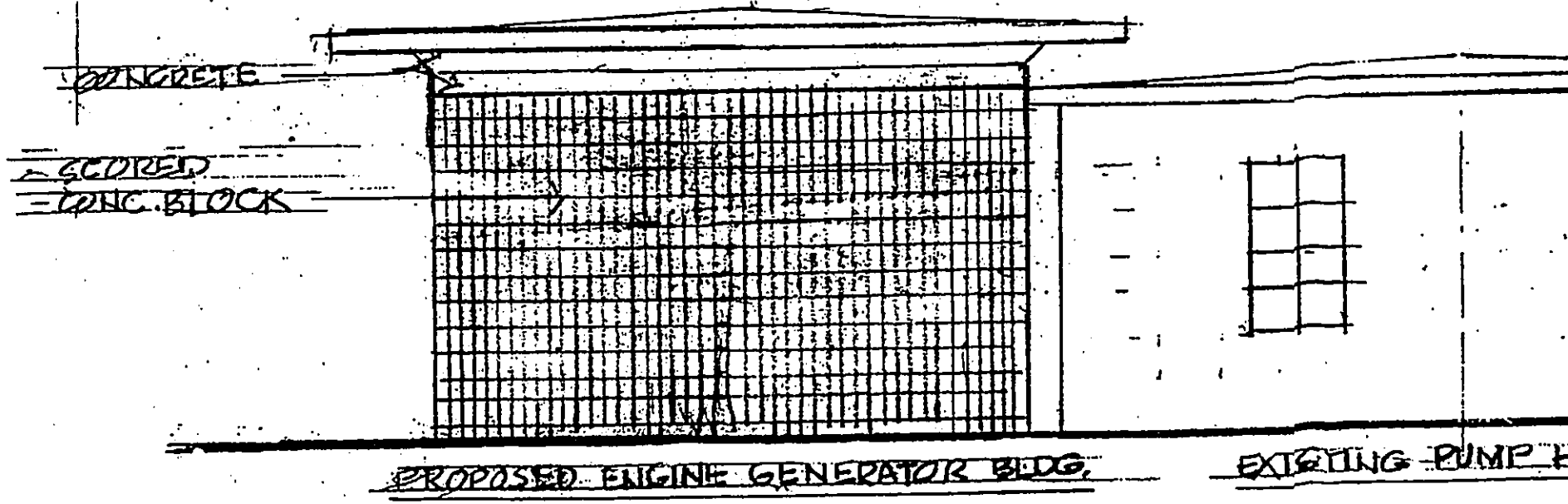
### Air Quality

The project site is located within the Ala Moana Park and the only major source of air pollution is from traffic on Ala Moana Boulevard. The existing pump station is a source of odor from the sewage it collects.

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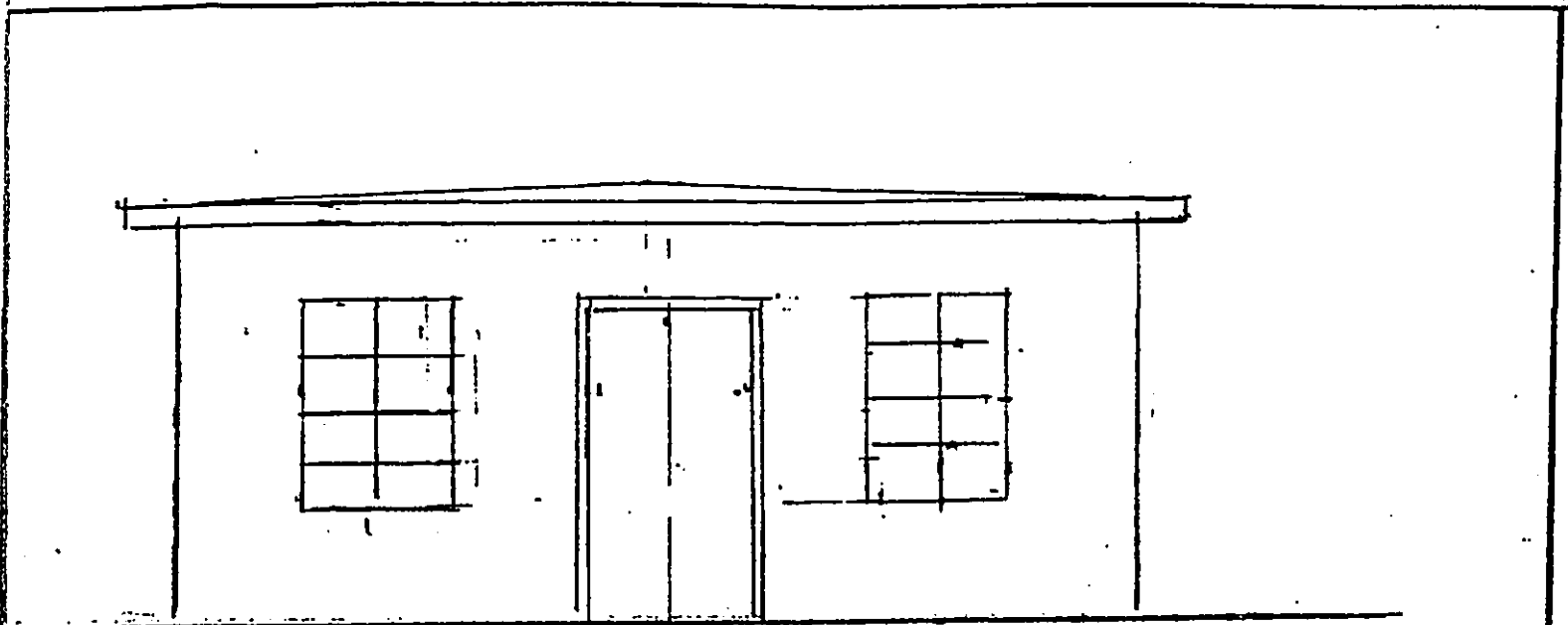


WAIKI ELEVATION  
SCALE: 1/4" = 1'-0"



MAKAT ELEVATION  
SCALE: 1/4" = 1'-0"

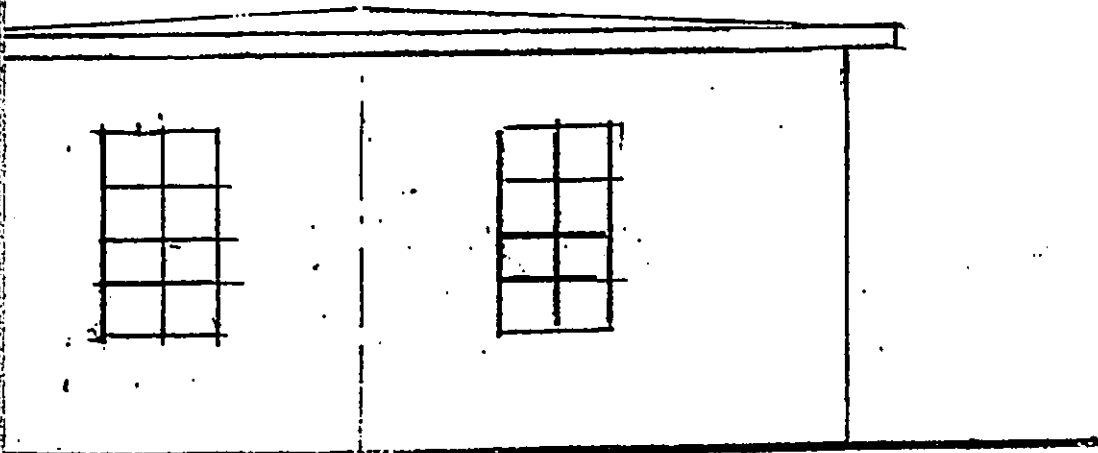
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EXISTING PUMP HOUSE

FRONT ELEVATION

$\frac{1}{4}'' = 1'-0''$



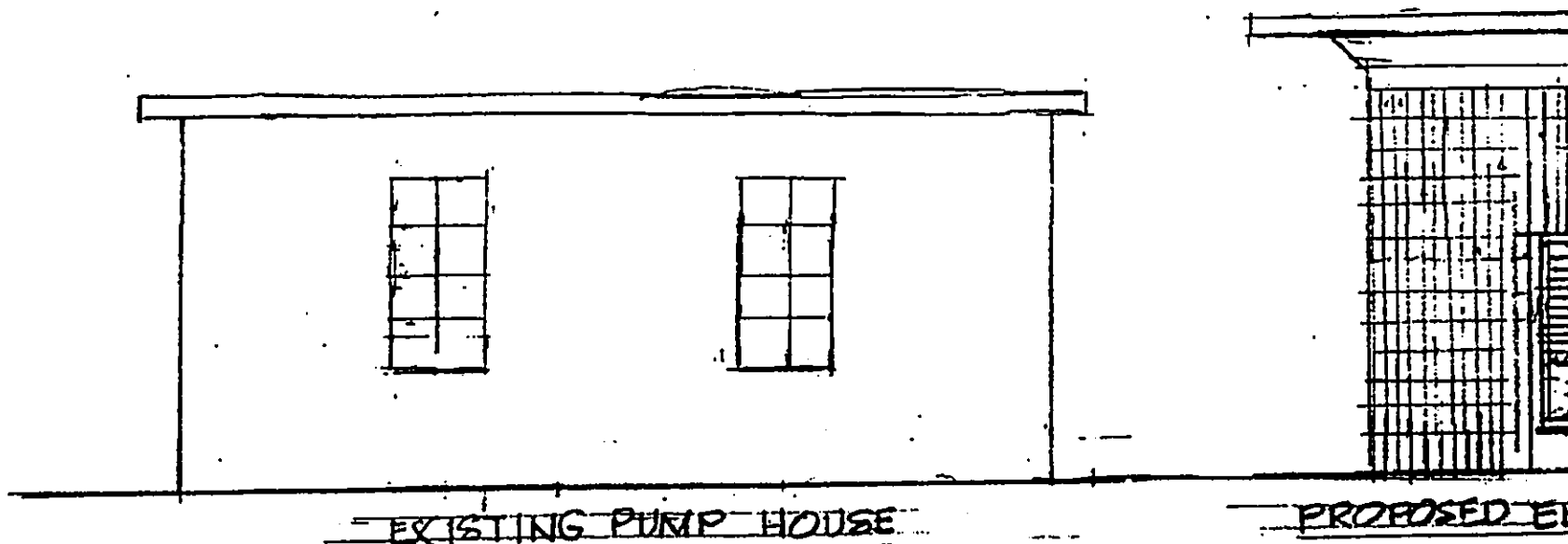
EXISTING PUMP HOUSE

ELEVATION

Figure 8

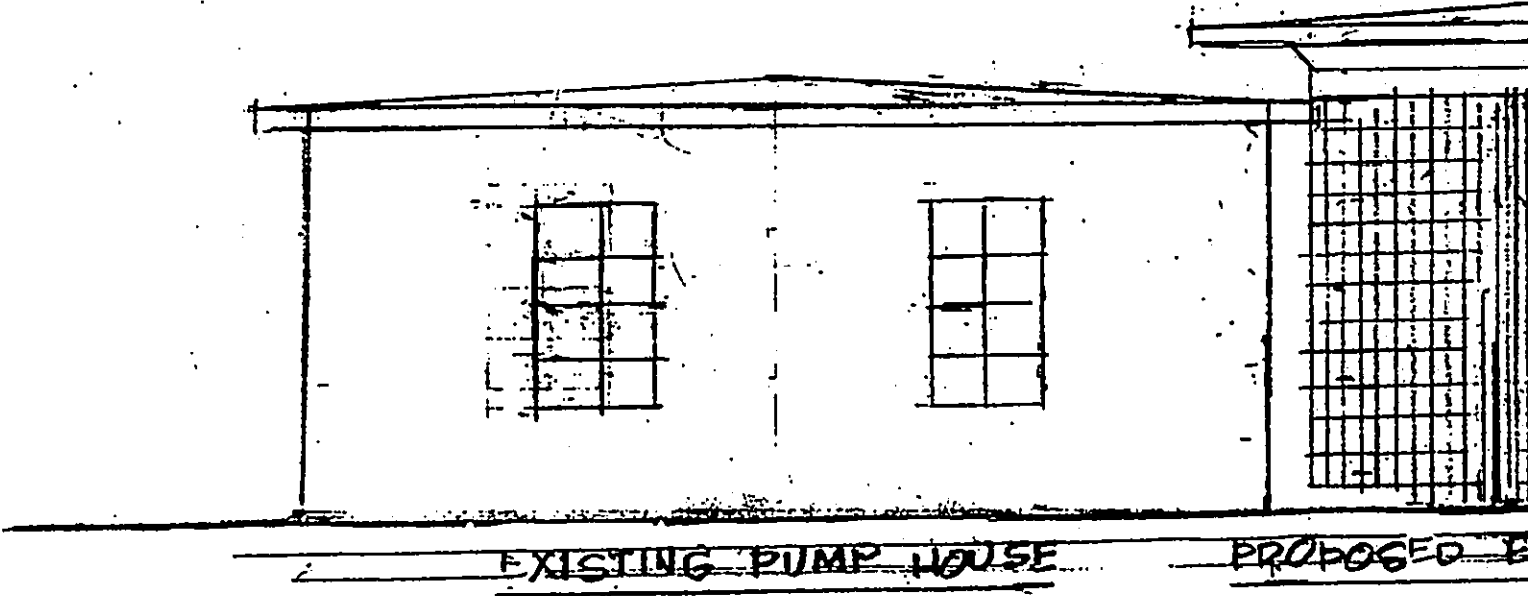
**MOANA PARK WASTEWATER  
PUMP STATION**

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EWA ELEVATION

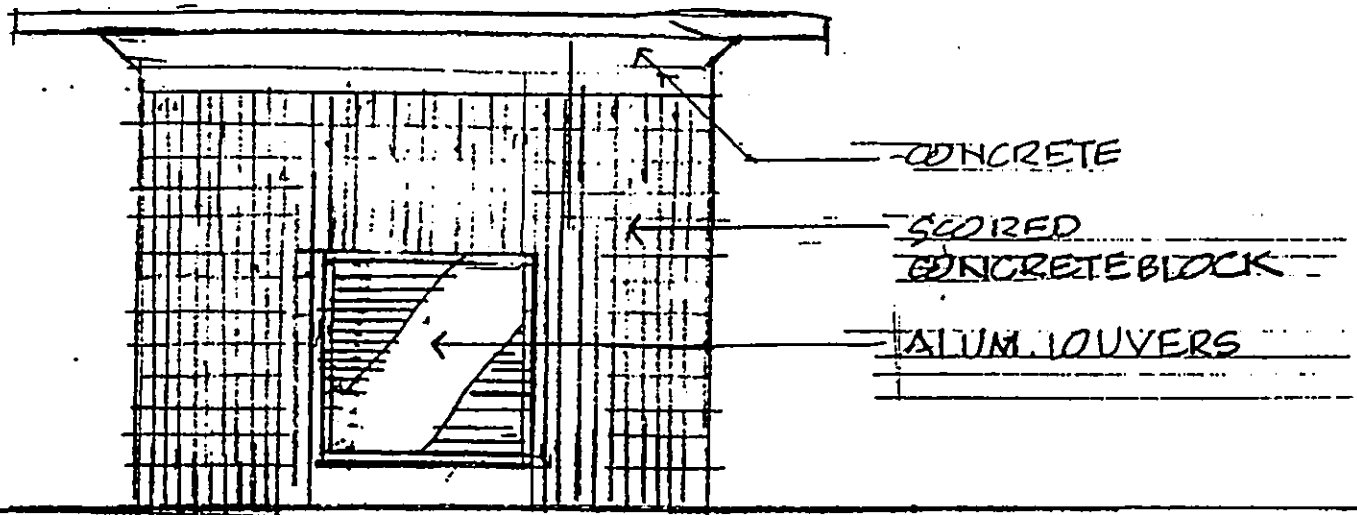
SCALE: 1/4" = 1'-0"



MAUKA ELEVATION

SCALE: 1/4" = 1'-0"

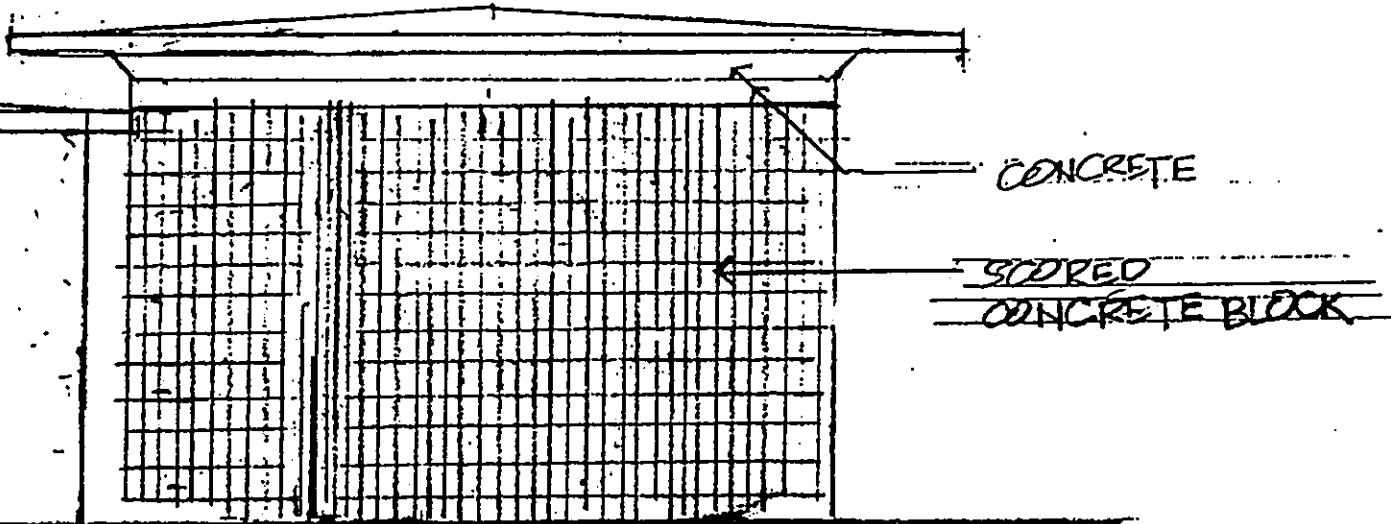
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PROPOSED ENGINE GENERATOR BLDG

ELEVATION

1/4" = 1'-0"



PROPOSED ENGINE GENERATOR BLDG

BACK ELEVATION

1/4" = 1'-0"

Figure 9

MOANA PARK WASTEWATER PUMP STATION

However, this sewage is relatively fresh and does not emit large quantities of offensive gases that are the result of the sewage decomposition. The pump station modifications will decrease system breakdowns which will prevent the accumulation and decomposition of raw sewage in the system. Mitigating measures will be used to minimize the odor problem.

Temporary impacts on air quality are expected during the construction of the improvements. Dust will result from the construction work. The construction equipment powered by fossil fuels will emit exhaust fumes. These impacts can be reduced through the use of mitigating measures discussed in Chapter VIII. Negligible impact is expected on the air quality of the site. An engine generator system will be installed on the site for emergency use only and the only impact from this generator will occur during the use of this generating system. The mitigating measures discussed in Chapter VIII will also be used in this instance.

#### **Noise Impact**

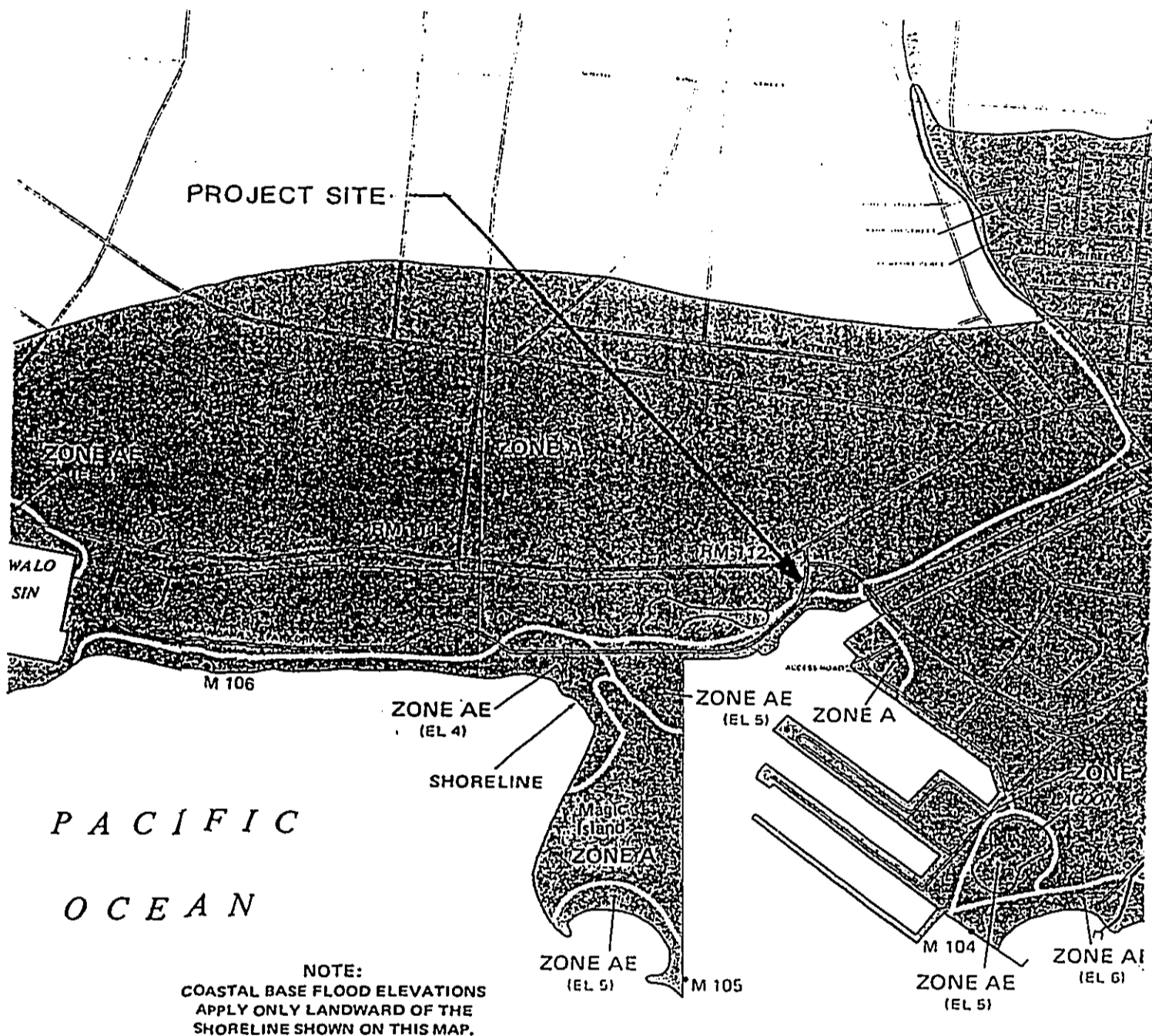
The project site is located adjacent to Ala Moana Boulevard. The primary source of noise in the area is from traffic on this major right-of-way. Another possible source of noise could be the existing WWPS, but the noise can not be heard over that of the traffic.

Temporary noise impact will also occur during the construction of the proposed improvements which should be for about 18 months. These noise impacts will be reduced through the use of mitigative measures discussed in Chapter VIII. The emergency generating system will have a slight noise impact because it will be tested frequently and used in cases of power failure. The emergency generator building will be constructed to comply with DOH noise regulations.

#### **Natural Hazards**

The site is located within Zone A, special flood hazard areas inundated by 100-year flood with no base flood elevation determined, according to the Flood Insurance Rate Map (FIRM) issued by the Federal Emergency Management Agency (FEMA). No base flood elevation for the site is indicated, however areas makai of the site have flood elevations of four and five feet. Refer to Figure 10 for Flood Insurance Rate Map.

The proposed improvements will not be impacted by tsunami or riverine floods. However, the improvements could possibly be impacted by flooding caused by a 100-year storm. To prevent flooding of the proposed improvements, the improvements will be either built at elevation 6 feet or flood proofing measures will be used.



### FLOOD INSURANCE RATE MAP

Figure 10

MOANA PARK WASTEWATER PUMP STATION
------------------------------------

### Public Services and Facilities

The proposed improvements will help to increase the capacity and modernize the wastewater pump station. The WWPS will require 3.5 to 4 times the electrical power that it presently uses. No increase in water use is expected. A telemetering system will be using the telephone lines. This will increase telephone use.

No adverse impact on public facilities is expected. The pump station will remain in operation during construction, so the wastewater will be continuously pumped.

### Circulation

The project site is located adjacent to Ala Moana Boulevard. The traffic flow on this roadway is heavy and reaches a maximum during the morning and afternoon peak traffic hours. An access for maintenance operation is located on the diamond head side of the WWPS and can only be accessed from the right hand lane of the diamond head bound portion of Ala Moana Boulevard.

There will be a temporary short term impact on traffic circulation during the connection of the new influent pipe which is located in the right hand lane of the diamond head bound portion of Ala Moana Boulevard. Mitigating measures as described in Chapter VIII will be used to reduce the impact on traffic circulation. No long term impacts on traffic circulation are anticipated as a result of the project.

### Other Public Facilities

The only other public facilities located near the site is Ala Moana Park. The WWPS is located in the northeastern corner of the park which is a less frequently used portion of the park.

A temporary adverse impact will occur during the construction of the project because the construction in the northeastern corner of the park will make it less appealing to park goers. This will only last about a year and a half. Construction activity may also impact the Waikiki Yacht Club and park maintenance activity. The site adjacent to the WWPS which is used for community activities such as craft fairs may also be affected. These activities may have to be moved to alternate sites within the park.

No long-term adverse impacts are anticipated as a result of this project.



Possible Hazards

The fuel oil storage tanks for the emergency generator could present a hazard to the environment in the cases of spillage or fire. These hazards will be minimized through the use of mitigation measures discussed in Chapter VIII Summary of Mitigating Measures.

CHAPTER V  
SOCIO-ECONOMIC CONSIDERATIONS

**Social Considerations**

The service area of the Moana Park WWPS is an area of intensive commercial and recreational uses. A system failure would have a significant impact on the commercial and recreational uses of the service area. The WWPS modifications will provide a new and well-operating system that will lessen the probability of a system failure.

Without the proposed improvements, the probability of a system failure or sewage spill will increase with time. The risk to the health and safety of the public would also increase over time.

The proposed project will not displace any existing homes or generate a demand for new housing units. Since the proposed project will not directly generate population increase, it will not result in an increased burden on existing community facilities and services.

**Economic Considerations**

The project will cost approximately 1.6 million dollars to construct. It will be a source of employment during the construction of the project. It will also be an indirect source of employment for those that supply materials for the project construction. The construction workers employed for the project will receive income as a result of working on the project. This income received will indirectly create new jobs because of spending of this income. The government will indirectly receive income through taxes paid by those involved directly and indirectly in the construction of the project.

The Ala Moana Shopping Center is a major employment and income source to the local economy and is also dependent on the WWPS. A well-operating pump station will help to sustain it and the other commercial and recreational uses in its service area.

CHAPTER VI  
SUMMARY OF MAJOR IMPACTS

No major adverse impacts are expected as a result of this project. The proposed project will have short term adverse impacts on air quality, noise and traffic circulation during the construction phase. Approximately 10,000 square feet of the park will be closed during the construction period. This affected area is located immediately around the pump station and is not a frequently used portion of the park. In an effort to minimize these impacts mitigating measures will be employed.

There will be long term beneficial impacts as a result of this project. The WWPS is old and outdated and is in need of modernization. The proposed improvements will allow for the continued use of the facility. The capacity of the WWPS will be more than doubled and this in turn will allow for continued upgrading in the service area of the WWPS. Many of the improvements will prevent the need to dump untreated raw sewage because of the inability of the WWPS to pump the sewage during power and equipment failures.

There will be noise impact during the operation of the emergency generator, but this impact will be minimized through the use of mitigation measures discussed in Chapter VIII.

There will be occasional impact on air quality because of the odor from the sewage collected. Mitigating measures will be used to minimize the odor problem.

The flooding of the pump station and emergency generator building is another possible impact. Mitigating measures discussed in Chapter VIII will be used to minimize the possibility of flooding of the pump station and emergency generator building.

The fuel oil tank for the emergency generator could possibly create hazards to the environment because it will be located underground. Mitigating measures discussed in Chapter VIII will be used to minimize the possibility of impact on the environment.

## CHAPTER VII ALTERNATIVES

The following is a discussion of the various alternatives considered.

### No Action Alternative

The no action alternative will result in no modification or improvement work on the existing pump station. This alternative is not viable, since the pump station's capacity is inadequate to handle the present day flow demand. The capability to continue pumping in the event of a power failure will also not be achieved and sewage might have to be allowed to over flow into the adjacent drainage canal. For these reasons the no action alternative is not a favorable solution.

### Modification Alternative

#### **Emergency Engine Generator**

An emergency engine generator was found to be necessary in the case of a power failure. Without the engine generator and in the event of a power failure of any lengthy duration the raw sewage would back up. In the worse case scenario, the need to dump raw sewage might become necessary. Because of this an emergency engine generator was deemed necessary.

### Alternative Location of Wastewater Pump Station

An alternative location would not be economically feasible and practical. The cost of relocating the pump station would be much greater than the cost of improving the existing facility. An alternative location is not necessary since there is a site already designated and in use. The reasons given above justify the proposed project.

CHAPTER VIII  
SUMMARY OF MITIGATING MEASURES

The most noticeable impacts to be generated by the proposed project would be those generated by construction work such as dust, noise and disturbance of traffic flow. These impacts are temporary, minor in scale and will last only during the period of construction. The use of mitigative measures will reduce or eliminate these impacts.

Adequate dust control measures will be employed during construction to minimize airborne particles. Adherence to approved erosion control plans and the use of mitigative measures such as water sprinkling will reduce the potential for adverse impact on air quality.

Equipment used on site for construction will emit some air pollutants in the form of engine exhausts. With proper maintenance by the contractor, the emissions from equipment can be minimized. The emergency engine generator can be maintained in the same manner to reduce the adverse impact it would create when it becomes necessary to run it. The tradewinds that prevail during most of the year will also be helpful in dispersing the airborne pollutants.

Construction activity will create a temporary increase in noise levels. Heavy equipment used for excavation on the site will be sources of noise. Mitigating measures such as the use of mufflers and limiting construction to daylight hours will be employed. The emergency generator will be a source of noise during operation of it. The use of mufflers and proper maintenance of the generator will be employed to minimize noise levels. Noise levels shall comply with the State of Hawaii, Department of Health noise regulations.

Temporary impact on traffic flow will occur during the connection of the influent line to the existing sewer line located within the right lane of the diamond head bound portion of Ala Moana Boulevard. To reduce the adverse impact to traffic flow, traffic in that lane will only be diverted during the installation of the influent line and this will be limited to only non-peak hours during the day. A traffic control plan approved by the State Department of Transportation will be used.

The flooding of the pump station and emergency generator building is another possible impact. The entry to the pump station will be built up to an elevation of six feet to minimize the threat of flooding. The emergency generator building floor level will be constructed at an elevation of six feet to minimize the possibility of flooding.

The fuel oil tank will be underground. The tank will comply with EPA and State of Hawaii Department of Health underground storage tank requirements and regulations.

Landscaping around the pump station site will be used to improve the visual appeal of the project area.

To minimize the pump station's odor problem, the detention time of the sewage will be kept to a short period to prevent the decomposition of the sewage, which is the source of the odor problem.

**CHAPTER IX**  
**DETERMINATION**

This assessment shows that the project will have no significant impacts on the environment and an Environmental Impact Statement is not required. Therefore, in accordance with the provisions of Chapter 343, Hawaii Revised Statutes, a Negative Declaration is determined to be in order.

**CHAPTER X**  
**FINDINGS AND REASONS**  
**SUPPORTING DETERMINATION**

The following findings and reasons support the determination that there will be no significant negative effect on the environment as a result of this project:

1. There will be no direct social or economic impacts as a result of the proposed project.
2. The impacts that are associated with construction of the proposed project are temporary short-term impacts. All short-term impacts will be mitigated and minimized in accordance with applicable City and County of Honolulu, State of Hawaii and Federal rules and regulations.
3. No rare or endangered wildlife or flora will be affected by the proposed action.
4. No known archaeological, cultural or historical sites are located on the parcel. Should any archaeological feature be found during construction work, the Department of Land and Natural Resources, Historic Sites Section will be notified and the appropriate measures will be taken.
5. There will be no significant adverse impact on the visual environment.
6. There will be no long-term adverse impact on the water quality of Ala Wai Boat Harbor and Ala Moana Beach.
7. The proposed pump station modifications will be beneficial to the community, since the existing pump station is old and inadequate to meet the current flow demands. The possibility of breakdown or overflow will also be greatly decreased by the proposed modifications.



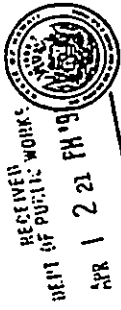
## CHAPTER XI

### COMMENTS AND RESPONSES FROM AGENCIES

A draft environmental assessment for this project was transmitted to the following agencies for comment. The agencies that responded are indicated below. Comments from these agencies have been incorporated into this environmental assessment.

<u>State Agencies</u>	<u>Agencies Responded</u>	<u>Agency Letter Attached in this Chapter</u>	<u>No Response</u>
Department of Land and Natural Resources	x	x	
Department of Health	x	x	
Office of Environmental Quality Control	x	x	
Department of Business and Economic Development	x	x	
Office of State Planning CZM Program	x	x	
Department of Transportation	x	x	
<u>County Agencies</u>			
Department of Parks and Recreation	x	x	
Department of Land Utilization	x	x	
Department of General Planning			x
Department of Transportation Services	x	x	
Board of Water Supply	x	x	
<u>Public Utilities</u>			
Hawaiian Electric Company	x	x	
Hawaiian Telephone Company			x
<u>Others</u>			
Ala Moana/Kakaako Neighborhood Board No. 11			x

JOHN WAINHE  
CONTINUE ON REVERSE



STATE OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES

P. O. BOX 671  
HONOLULU, HAWAII 96813

REF:OCEA:JN

MAR 28 1991

The Honorable Sam Callejo, Director  
Department of Public Works  
City and County of Honolulu  
650 S. King Street  
Honolulu, Hawaii 96813

Dear Mr. Callejo:

Subject: Draft Environmental Assessment for Moana Park  
Wastewater Pump Station Modifications

Thank you for giving our Department the opportunity to comment on this matter. We have reviewed the materials you submitted and have the following comments.

Our Department's Historic Preservation Division comments that the project parcel is a small piece of fill land at the east end of Ala Moana Beach Park. The project will have "no effect" on historic sites.

The Aquatic Resources Division indicates that the installation of the emergency generator may preclude sewage overflows during power outages. Modernizing the pump station should minimize the potential for sewage overflow into the nearby drainage canal. Provided construction related debris, sewage, and other pollutants do not enter the nearby waterway, impacts on aquatic resource values should be minimal.

The Land Management Division comments that the proposed use is consistent with Executive Order No. 1596 covering the subject property.

91-1172  
WILLIAM W. PATY, COMMISSIONER  
BUREAU OF LAND AND NATURAL RESOURCES

WILLIAM W. PATY  
DAN T. KOCHI  
AQUATIC RESOURCES  
PROGRAM  
CONSERVATION AND  
RESTORATION  
PROGRAM  
LAND MANAGEMENT  
DIVISION

File No.: 91-339  
Doc. No.: 0399E

WWM

Honorable Sam Callejo

-2-

Doc. No.: 0399E

Thank you for your cooperation in this matter. Please feel free to call me or Roy Schaefer at our Office of Conservation and Environmental Affairs, at 548-7837, if you have questions.

Very truly yours,

William W. Paty

JOHN WALKER  
DIRECTOR OF PUBLIC WORKS  
MAR 13 10 54 AM '91  
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STATE OF HAWAII  
DEPARTMENT OF HEALTH  
P. O. BOX 3378  
HONOLULU, HAWAII 96813

March 5, 1991

Mr. Sam Callejo  
Director and Chief Engineer  
Department of Public Works  
City and County of Honolulu  
650 S. King Street  
Honolulu, HI 96813

Dear Mr. Callejo:

Subject: Draft Environmental Assessment for  
Moana Park Wastewater Pump Station  
Modifications 2/91

A review and evaluation of the subject environmental  
assessment by the Wastewater Branch staff generated no comments  
for this project. We concur with the need for this project.

If you need any clarification or additional information,  
please contact Terry Kearney of the Wastewater Branch at  
543-8296.

Very truly yours,

JOHN C. LEWIN, M.D.  
Director of Health

91-0966

JOHN C. LEWIN, M.D.  
DIRECTOR OF HEALTH

IN REPLY, PLEASE REFER TO  
EUD/WS

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STATE OF HAWAII  
OFFICE OF ENVIRONMENTAL QUALITY CONTROL  
278 SOUTH KING STREET  
FOURTH FLOOR  
HONOLULU, HAWAII 96813

March 14, 1991

Ref: WEP-91-43H

Mr. Sam Callejo  
Director and Chief Engineer  
Department of Public Works  
City and County of Honolulu  
650 South King Street  
Honolulu, Hawaii 96813

Dear Mr. Callejo:

Subject: Draft Environmental Assessment for Moana Park  
Wastewater Pump Station Modifications

Thank you for providing the opportunity to review and comment  
on the above subject. We do not have any comments to offer on  
the above subject at this time.

Sincerely,

BRIAN J. J. CHOY  
Acting Director, OEQC

91-0980

BRIAN J. J. CHOY  
Acting Director



DEPARTMENT OF BUSINESS,  
ECONOMIC DEVELOPMENT & TOURISM

91-0753  
JOSE WASE  
MURRAY E. TOWILL  
BARBARA DAL STANTON  
DEPUTY DIRECTOR  
DEPUTY DIRECTOR

10 COMMERCE CENTER, 333 MERCHANT ST., RM. 1102, HONOLULU, HAWAII 96813  
PHONE: (808) 541-4349 FAX: (808) 528-5242

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OFFICE OF STATE PLANNING  
Office of the Governor

215 E. COLLETT DRIVE, HONOLULU, HAWAII 96813  
TELEPHONE: (808) 541-5989  
FAX: (808) 541-5988

91-1091

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February 25, 1991

MEP 91-431

March 22, 1991

Mr. Sam Callejo  
Director and Chief Engineer  
Department of Public Works  
City and County of Honolulu  
650 South King Street  
Honolulu, Hawaii 96813

Dear Mr. Callejo:

Subject: Draft Environmental Assessment for  
Moana Park Wastewater Pump Station Modifications

We wish to inform you that we have no comments to offer on the subject draft environmental assessment. However, we do concur with the preliminary conclusion that a negative declaration is appropriate.

Thank you for the opportunity to review the document.

Sincerely,

*Murray E. Towill*  
Murray E. Towill

PHK:hkts26

The Honorable Sam Callejo  
Director and Chief Engineer  
Department of Public Works  
City and County of Honolulu  
650 South King Street  
Honolulu, Hawaii 96813

Dear Mr. Callejo:

Subject: Environmental Assessment for Moana Park  
Wastewater Pump Station Modifications

The applicant, the City and County of Honolulu, is proposing to modify and modernize the Moana Park Wastewater Pump Station located at the east end of Ala Moana Park adjacent to Ala Moana Boulevard. The subject document also states that a standby engine generator and related structure are proposed as an emergency provision in the case of a power failure.

We have reviewed the subject project and have no comments to offer at this time.

Thank you for the opportunity to comment.

Sincerely,

*Harold S. Masumoto*  
Harold S. Masumoto  
Director

JOHN WATKINS  
City Engineer



RECEIVED  
OFFICE OF THE CITY ENGINEER  
MAY 14 1991

96-1082  
EDWARD Y. HIRATA  
DIRECTOR  
CONSTRUCTION  
AL PARK  
JOYCE L. KANE  
JEANNE K. SCHMIDT  
CALVIN L. THORNTON  
DIRECTOR REFER TO:  
HWY-PA  
2.6072

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
869 PUNCHBOWL STREET  
HONOLULU, HAWAII 96813  
March 22, 1991

Mr. Sam Callejo  
Director and Chief Engineer  
Department of Public Works  
City and County of Honolulu  
650 South King Street  
Honolulu, Hawaii 96813

Dear Mr. Callejo:

Draft Environmental Assessment  
Moana Park Wastewater Pump Station Modifications  
for the proposed pump station at Moana Park.

As requested, we have reviewed the draft environmental assessment  
for the proposed pump station at Moana Park.  
In consonance with Figure 5 and paragraph 4 of page 21, Figure 2  
should indicate the approximate location of the existing SMH on  
Ala Moana Boulevard. If an approved traffic control plan is  
implemented, we agree that impacts to our facilities will be  
minimal.

If any question arises, please feel free to contact us at your  
earliest convenience.

Very truly yours,

*Edward Y. Hirata*  
Edward Y. Hirata  
Director of Transportation

DEPARTMENT OF PUBLIC WORKS  
CITY AND COUNTY OF HONOLULU  
830 SOUTH KING STREET  
HONOLULU, HAWAII 96813



SAM CALLEJO  
PROFESSIONAL CIVIL ENGINEER  
C. MICHAEL STREET  
ST. PAULI, HAWAII

May 14, 1991

WEP 91-152

Mr. Edward Y. Hirata, Director of Transportation  
Department of Transportation  
State of Hawaii  
869 Punchbowl Street  
Honolulu, Hawaii 96813

Dear Mr. Hirata:

Subject: Draft Environment Assessment for  
Moana Park Wastewater Pump Station Modifications

Thank you for your letter of March 22, 1991 commenting on the  
subject environmental assessment. This letter provides our  
response to your comments.

Figure 2 has been revised to indicate the approximate location of  
the existing SMH on Ala Moana Boulevard. Construction plans  
including a traffic control plan will be submitted to your  
department for review.

Thank you for your assistance on this project.

Very truly yours,

*Sam Callejo*  
SAM CALLEJO  
Director and Chief Engineer

DEPARTMENT OF PARKS AND RECREATION  
**CITY AND COUNTY OF HONOLULU**  
 650 SOUTH KING STREET  
 HONOLULU, HAWAII 96813



FRANK F. FARNSWORTH  
 MAYOR

March 14, 1991

TO: *Sam Callejo*  
 SAM CALLEJO, DIRECTOR AND CHIEF ENGINEER  
 DEPARTMENT OF PUBLIC WORKS

FROM: WALTER M. OZAWA

SUBJECT: REVIEW OF DRAFT ENVIRONMENTAL ASSESSMENT FOR  
 MOANA PARK WASTEWATER PUMP STATION MODIFICATION  
 TRK: 2-3-37: 10  
 PROJ. REF. NO. WEP-91-43A

We have reviewed the DEA for Moana Park Wastewater Pump Station Modification and make the following comments and recommendation.

We have no objections to the implementation of the project as proposed in the report. You may proceed to submit the necessary Land Use Permits for the project's approval.

We recommend that the construction plans for the project be submitted to our department for review.

Thank you for the opportunity to comment on the report. Should you have any questions, please contact Jason Yuen of our Advance Planning Branch at extension 6315.

*Walter M. Ozawa*  
 WALTER M. OZAWA, Director

WMO:jf

cc: Belt Collins & Associates

DEPARTMENT OF LAND UTILIZATION  
**CITY AND COUNTY OF HONOLULU**  
 650 SOUTH KING STREET  
 HONOLULU, HAWAII 96813



FRANK F. FARNSWORTH  
 MAYOR

March 18, 1991

TO: SAM CALLEJO, DIRECTOR AND CHIEF ENGINEER  
 DEPARTMENT OF PUBLIC WORKS

FROM: DONALD A. CLEGG, DIRECTOR

SUBJECT: DRAFT ENVIRONMENTAL ASSESSMENT (DEA) FOR MOANA PARK  
 WASTEWATER PUMP STATION MODIFICATIONS, HONOLULU, OAHU  
 TAX MAP KEY: 2-3-37: 10

We have reviewed the above-referenced DEA and have no objections or comments at this time. We do note that the project is within the Special Management Area (SMA) and that prior to construction, a SMA permit will be required.

Thank you for the opportunity to comment.

*Donald A. Clegg*  
 DONALD A. CLEGG  
 Director of Land Utilization

DAC:dk

DEPARTMENT OF LAND UTILIZATION  
**CITY AND COUNTY OF HONOLULU**  
 650 SOUTH KING STREET  
 HONOLULU, HAWAII 96813



FRANK F. FARNSWORTH  
 MAYOR

March 18, 1991

TO: SAM CALLEJO, DIRECTOR AND CHIEF ENGINEER  
 DEPARTMENT OF PUBLIC WORKS

FROM: DONALD A. CLEGG, DIRECTOR

SUBJECT: DRAFT ENVIRONMENTAL ASSESSMENT (DEA) FOR MOANA PARK  
 WASTEWATER PUMP STATION MODIFICATIONS, HONOLULU, OAHU  
 TAX MAP KEY: 2-3-37: 10

We have reviewed the above-referenced DEA and have no objections or comments at this time. We do note that the project is within the Special Management Area (SMA) and that prior to construction, a SMA permit will be required.

Thank you for the opportunity to comment.

*Donald A. Clegg*  
 DONALD A. CLEGG  
 Director of Land Utilization

DAC:dk

DEPARTMENT OF LAND UTILIZATION  
**CITY AND COUNTY OF HONOLULU**  
 650 SOUTH KING STREET  
 HONOLULU, HAWAII 96813



FRANK F. FARNSWORTH  
 MAYOR

March 18, 1991

TO: SAM CALLEJO, DIRECTOR AND CHIEF ENGINEER  
 DEPARTMENT OF PUBLIC WORKS

FROM: DONALD A. CLEGG, DIRECTOR

SUBJECT: DRAFT ENVIRONMENTAL ASSESSMENT (DEA) FOR MOANA PARK  
 WASTEWATER PUMP STATION MODIFICATIONS, HONOLULU, OAHU  
 TAX MAP KEY: 2-3-37: 10

We have reviewed the above-referenced DEA and have no objections or comments at this time. We do note that the project is within the Special Management Area (SMA) and that prior to construction, a SMA permit will be required.

Thank you for the opportunity to comment.

*Donald A. Clegg*  
 DONALD A. CLEGG  
 Director of Land Utilization

DAC:dk

DEPARTMENT OF LAND UTILIZATION  
**CITY AND COUNTY OF HONOLULU**  
 650 SOUTH KING STREET  
 HONOLULU, HAWAII 96813



FRANK F. FARNSWORTH  
 MAYOR

March 18, 1991

TO: SAM CALLEJO, DIRECTOR AND CHIEF ENGINEER  
 DEPARTMENT OF PUBLIC WORKS

FROM: DONALD A. CLEGG, DIRECTOR

SUBJECT: DRAFT ENVIRONMENTAL ASSESSMENT (DEA) FOR MOANA PARK  
 WASTEWATER PUMP STATION MODIFICATIONS, HONOLULU, OAHU  
 TAX MAP KEY: 2-3-37: 10

We have reviewed the above-referenced DEA and have no objections or comments at this time. We do note that the project is within the Special Management Area (SMA) and that prior to construction, a SMA permit will be required.

Thank you for the opportunity to comment.

*Donald A. Clegg*  
 DONALD A. CLEGG  
 Director of Land Utilization

DAC:dk

DEPARTMENT OF TRANSPORTATION SERVICES  
CITY AND COUNTY OF HONOLULU  
HONOLULU MUNICIPAL BUILDING  
830 SOUTH KING STREET  
HONOLULU, HAWAII 96813

91-0735

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NINM



JOSEPH H. MAGALDI, JR.  
DIRECTOR

February 26, 1991

MEMORANDUM

TO: *SAM CALLEJO*  
DIRECTOR AND CHIEF ENGINEER  
DEPARTMENT OF PUBLIC WORKS

FROM: JOSEPH H. MAGALDI, JR., DIRECTOR

SUBJECT: DRAFT ENVIRONMENTAL ASSESSMENT FOR  
HOANA PARK WASTEWATER PUMP STATION MODIFICATIONS

We have reviewed your draft assessment and have no comments to offer.

*JH*  
JOSEPH H. MAGALDI, JR.

BOARD OF WATER SUPPLY

CITY AND COUNTY OF HONOLULU  
530 SOUTH BERTANNA STREET  
HONOLULU, HAWAII 96813



MARCH 15 1991

March 21, 1991

101-1087

FRANK TASHI  
DIRECTOR  
SAMI CALLEJO  
VICE CHIEF ENGINEER  
EDMUNDY HANATA  
VALERIE H. TAMMAGO  
KAZU HAYASHIDA  
MANAGER AND CHIEF ENGINEER

DEPARTMENT OF PUBLIC WORKS  
CITY AND COUNTY OF HONOLULU

430 SOUTH KING STREET  
HONOLULU, HAWAII 96813



SAMI CALLEJO  
DIRECTOR AND CHIEF ENGINEER  
C MICHAEL STREET  
HONOLULU, HAWAII 96813

WEP 91-151

May 14, 1991

TO: SAM CALLEJO, DIRECTOR AND CHIEF ENGINEER  
DEPARTMENT OF PUBLIC WORKS

FROM: KAZU HAYASHIDA, MANAGER AND CHIEF ENGINEER *K.H.*  
BOARD OF WATER SUPPLY

SUBJECT: YOUR MEMORANDUM DATED FEBRUARY 19, 1991 REGARDING  
THE DRAFT ENVIRONMENTAL ASSESSMENT FOR THE PROPOSED  
MOANA PARK WASTEWATER PUMP STATION MODIFICATIONS,  
TMK: 2-3-37-10, ALA MOANA BOULEVARD

We have no objections to the proposed wastewater pump station modifications. We have the following comments:

1. There is presently one water service for the property.
2. The availability of additional water will be confirmed when the building permit is submitted for our review and approval. When additional water is made available, the applicant will be required to pay our Water System Facilities Charges.
3. If a meter larger than 2 inches is required, the construction drawings showing the installation of the meter should be submitted for our review and approval.

If you have any questions, please contact Bert Kuiuoka at 527-5235.

MEMORANDUM

TO: MR. KAZU HAYASHIDA, MANAGER AND CHIEF ENGINEER  
BOARD OF WATER SUPPLY

FROM: SAM CALLEJO, DIRECTOR AND CHIEF ENGINEER  
DEPARTMENT OF PUBLIC WORKS

SUBJECT: DRAFT ENVIRONMENTAL ASSESSMENT FOR  
MOANA PARK WASTEWATER PUMP STATION MODIFICATIONS

Thank you for your letter of March 21, 1991 commenting on the subject environmental assessment. This memo provides our response to your comments.

At the present time, no increase in the meter size is anticipated for the project. The project will comply with all Board of Water Supply requirements.

Thank you for your assistance on this project.

*[Signature]*  
SAM CALLEJO  
Director and Chief Engineer



Hawaiian Electric Company, Inc. • PO Box 2750 • Honolulu, HI 96840-0001

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6604



William A. Bonnet  
Manager  
Environmental Department

March 5, 1991

Mr. Sam Callejo  
City & County of Honolulu  
Department of Public Works  
650 S King Street  
Honolulu, Hawaii 96813

Dear Mr. Callejo:

Subject: Draft Environmental Assessment (DEA) for  
Moana Park Wastewater Pump Station Modifications

We have reviewed the subject DEA, and have no comments on the proposed project at this time. HECO shall reserve comment pertaining to the protection of existing power lines bordering the project area until construction plans are finalized.

Sincerely,

*William A. Bonnet*

## REFERENCES

Federal Emergency Management Agency (September 4, 1987). "Flood Insurance Rate Map: Panel 120 of 135 (Community Panel Number 150001-0120-C)". National Flood Insurance Rate Program.

United States Department of Agriculture, Soil Conservation Service. (August 1972). Soil Survey of Islands of Kauai, Oahu, Maui, Molokai, and Lanai, State of Hawaii. Washington, D.C.