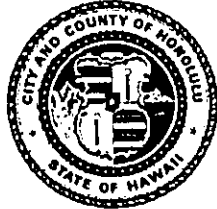


DEPARTMENT OF WASTEWATER MANAGEMENT  
**CITY AND COUNTY OF HONOLULU**

650 SOUTH KING STREET  
HONOLULU, HAWAII 96813



JEREMY HARRIS  
MAYOR

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OFFICE OF  
QUALITY

FELIX B. LIMTIACO  
ACTING DIRECTOR

WPP 94-418

October 6, 1994

Dr. Bruce S. Anderson, Interim Director  
Office of Environmental Quality Control  
220 South King Street, 4th Floor  
Honolulu, Hawaii 96813

Dear Dr. Anderson:

Subject: Negative Declaration for Waipio Sewage Pump  
Station Underground Fuel Tank Replacement  
TMK 9-5-01:33, Wahiawa, Oahu, Hawaii

The Department of Wastewater Management did not receive comments during the 30-day public comment period which began on July 8, 1994, OEQC Bulletin. The Department of Wastewater Management has determined that this project will not have significant environmental effect and has issued a negative declaration. Please publish this notice in the October 23, 1994 OEQC Bulletin.

We have enclosed a completed OEQC Bulletin Publication Form and four copies of the Final EA. Please contact Keith Sugihara at 527-5398 if you have any questions.

Very truly yours,

A handwritten signature in black ink, appearing to read "Felix B. Limtiaco".

FELIX B. LIMTIACO  
Acting Director

Enclosures

135

1994-11-08-0A-*FEA*-Waipio Sewage Pump  
Station Underground Fuel Oil Tank  
Replacement

NOV - 8 1994

ENVIRONMENTAL ASSESSMENT

FOR


WAIPIO SEWAGE PUMP STATION UNDERGROUND FUEL OIL TANK REPLACEMENT

OAHU, HAWAII

TMK 9-5-01: 33

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

RESPONSIBLE OFFICIAL:

  
FELIX B. LIMTIACO  
Acting Director

10/12/94  
Date

PREPARED BY:

DIVISION OF ENGINEERING AND CONSTRUCTION

This document is prepared pursuant to Chapter 343, HRS.

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## SECTION 1.0 ACTION DESCRIPTION

### 1.1 BACKGROUND

Subtitle I (Regulation of Underground Storage Tanks) of the Resource Conservation and Recovery Act mandated the requirement to protect human health and the environment from leaking underground tanks and associated piping used to store petroleum products. As a result, Federal and State regulatory programs were developed to require tank owners to install specific release protection measures.

### 1.2 GENERAL

This action will replace an existing 13 year old 560 gallon steel tank and associated piping with a 1,000 gallon double-wall fiberglass tank and piping that will meet all current Federal, State, and Municipal regulations for fuel storage systems. The existing tank which stores fuel for the station's emergency diesel generator is undersized. The new tank will satisfy the City's current requirement for capacity of 2 days at peak plus 5 days average sewage flows.

Based on monthly inventory control and annual tightness testing, the existing tank is not leaking and soil contamination is not expected to be found. However, should contamination be found, project specifications will include requirements for additional testing, source identification, and disposal.

All construction work will be done within the Waipio Sewage Pumping Station site. The new tank, which is approximately 5 feet longer, will be installed in the same general location as the existing tank (Fig. 1). Existing space is sufficient and construction documents will specify standard practices for both dry and wet hole installations. During the construction period, the station will remain in operation and emergency fuel provided from a portable tank, if necessary. This project will include the following:

1. Remove and dispose the existing single wall steel tank and piping.
2. Install new double-wall fiberglass tank and piping.
3. Install continuous leak detection for tank and piping.
4. Install continuous tank level monitoring.
5. Install spill and overflow containment and control.
6. Install corrosion protection.
7. Increase tank capacity to meet current operational requirement.
8. Clean up any soil contamination, if found.
9. Close excavations.
10. Maintain readiness of the emergency generator.

#### 1.3 ACTION COST AND SCHEDULE

The estimated cost is \$230,000 and construction is scheduled for FY 96 under the project "UPGRADE FUEL STORAGE TANKS AT VARIOUS WASTEWATER FACILITIES, PHASE 1A."

SECTION 2.0 SITE DESCRIPTION, POTENTIAL ENVIRONMENTAL IMPACTS  
AND MITIGATION MEASURES

2.1 EXISTING SITE AND CONDITIONS

This site is at the bottom of Waikakalaua Gulch near the entrance to Waipio Acres. Kamehameha Highway is east of the site and Waikakalaua Stream on the north (Fig. 1). The site elevation is 20 feet lower than Kamehameha Highway and the station is not visible to passing motorists nor to the nearest apartment residents that are 300 feet away and across the highway. The two story apartments are also 20 feet lower than Kamehameha Highway. A 300 feet long paved easement, entered from Kamehameha Highway, provides an access to the station (Fig. 2).

2.2 WATER RESOURCES

The groundwater and adjacent Waikakalaua Stream will not be impacted.

2.3 FLORA AND FAUNA

There are no significant native plants or wildlife on or near the site.

2.4 ARCHAEOLOGICAL AND HISTORICAL SITES

There are no known archaeological or historical findings on or near the site.

2.5 UTILITIES

There are no major water lines or electrical wiring in the existing tank area. Two overhead telephone trunk lines cross the easement entrance from Kamehameha Highway and will have to be raised for a truck, forklift, or other equipment to enter and leave.

## 2.6 NOISE AND DUST

The operation of construction equipment at the site is expected to exceed the ambient noise levels of the State Department of Health regulations daytime limit of 55 dBA. However, the highway barrier and the distance from residents should reduce the levels at the apartments to below the limit. Also, construction will only be done during the daytime hours of 8:00 a.m. to 4:30 p.m. when there are other ambient noises of equal or higher levels.

Appropriate construction measures will require contractor to minimize any dust generated by the construction activity.

## 2.7 TRAFFIC

All construction will be on the site and will not impact traffic on Kamehameha Highway by taking up highway or roadside space for parking or storage. The only effect, if any, might be a slight slowdown in traffic when a loaded delivery truck, forklift, or other equipment enters or leaves the paved easement.

## 2.8 ODOR

Additional sewage odor will not occur since the station will still be operating and sewage flows will not be affected. There may be some fuel odors when the existing tank is emptied and piping removed. However, fuel exposures will be minimal and the odors will be dissipated by the prevailing trade winds at the lower elevation.

SECTION 3.0 SUMMARY OF MAJOR IMPACTS AND ALTERNATIVES  
CONSIDERED

3.1 MAJOR IMPACT

The major positive impact of this action is the continuous and controlled protection of the groundwater.

There are no major negative impacts.

3.2 NO ACTION OR DELAYED ACTION

No action or delays could result in release of fuel to the environment since the existing tank does not have corrosion protection. No action will result in violation of Federal and State regulations and delays may jeopardize meeting the regulatory deadline of December 22, 1998.

3.3 ALTERNATE DESIGNS

An aboveground tank with equal protection will also be considered as an alternative to underground tank replacement. Their different designs require further study on operation, maintenance, and reliability before a selection can be made. An aboveground tank will not have any major negative impact.

SECTION 4.0 PRELIMINARY DETERMINATION AND JUSTIFICATION

This action will not cause any significant impact on the environment and therefore, preparation of an Environmental Impact Statement is not required. The following findings and reasons support this determination:

1. This action will upgrade the existing tank and piping and provide continuous protection of the groundwater and Waikakalaua Stream against contamination and ensure that they remain protected.



2. This action will not impact the existing plants and animals on or around the site even though they are not considered significant or endangered. All work will be done within the station site and equipment storage and vehicle parking will be along the paved easement.
3. Archaeological or historical findings were not found when the site was previously excavated, filled and built on and findings are not expected since all work will be within the same site.
4. The noise from equipment and construction operation is not anticipated to be a problem. The noise level at the apartments is anticipated to be below the allowable daytime limit due to the high highway barrier and distance from the station. Construction will only be done during normal daytime hours and all equipment will have appropriate noise attenuation devices.
5. Sewage and diesel fuel odors will not be a problem nor detrimentally affect air quality. Additional sewage odors will not occur since the station will remain in operation and flows will not be stopped. There will be some fuel odor but they will stay at the lower elevation and be dissipated there.
6. All work and the installed system will be in strict conformance to the following Federal, State and City requirements and practices for safety and environmental protection:

- a. Code of Federal Regulations, Protection of Environment, Chapter 40, Part 280.
- b. Environmental Impact Statement Rules, Department of Health (DOH), Title 11, Chapter 200.
- c. National Fire Protection Association (NFPA 30) Flammable and Combustible Liquids Code and (NFPA 31) Standards for Installation of Oil Burning Equipment.
- d. ANSI B31.1 Standard Code for Power Piping.

APPENDIX

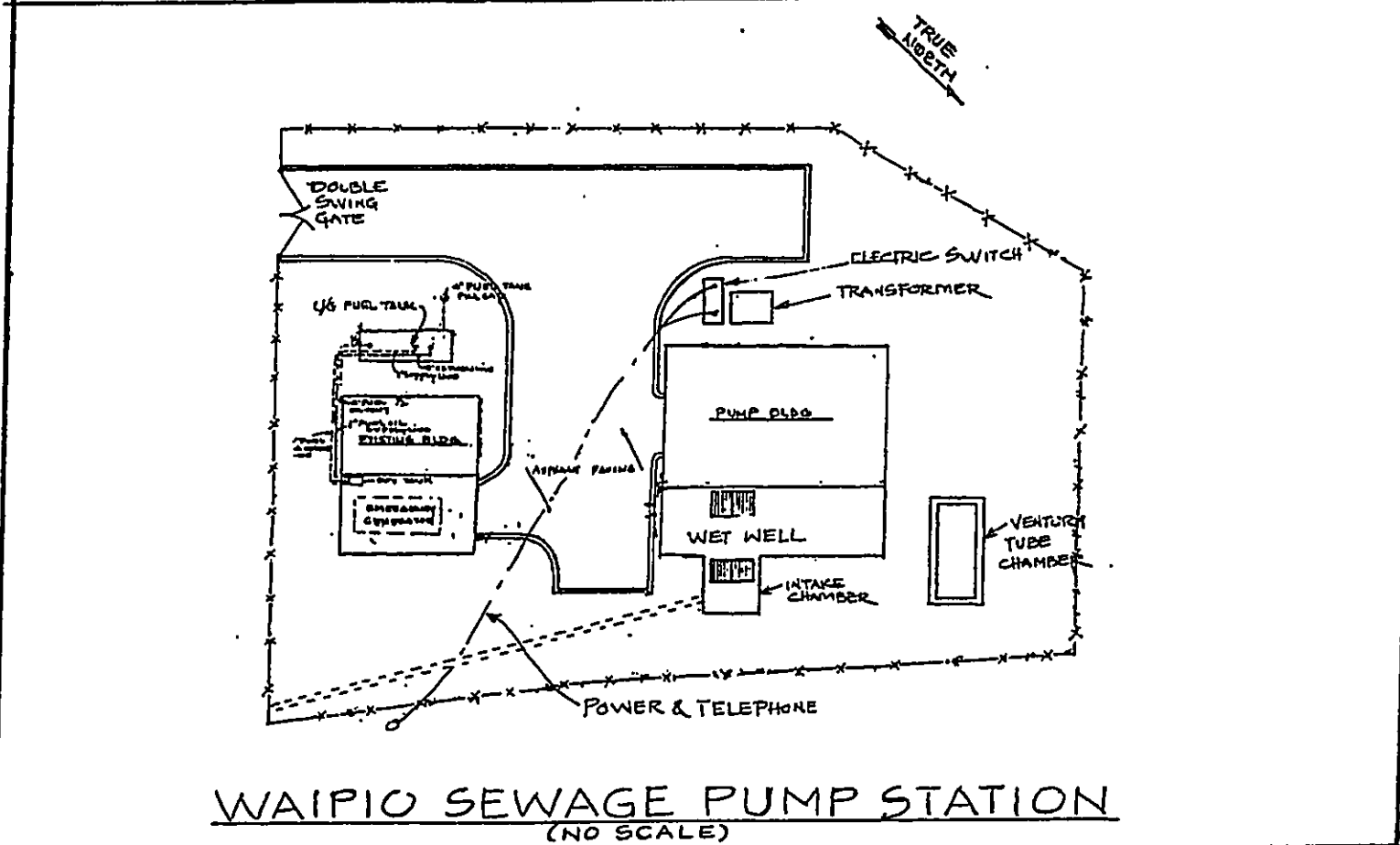
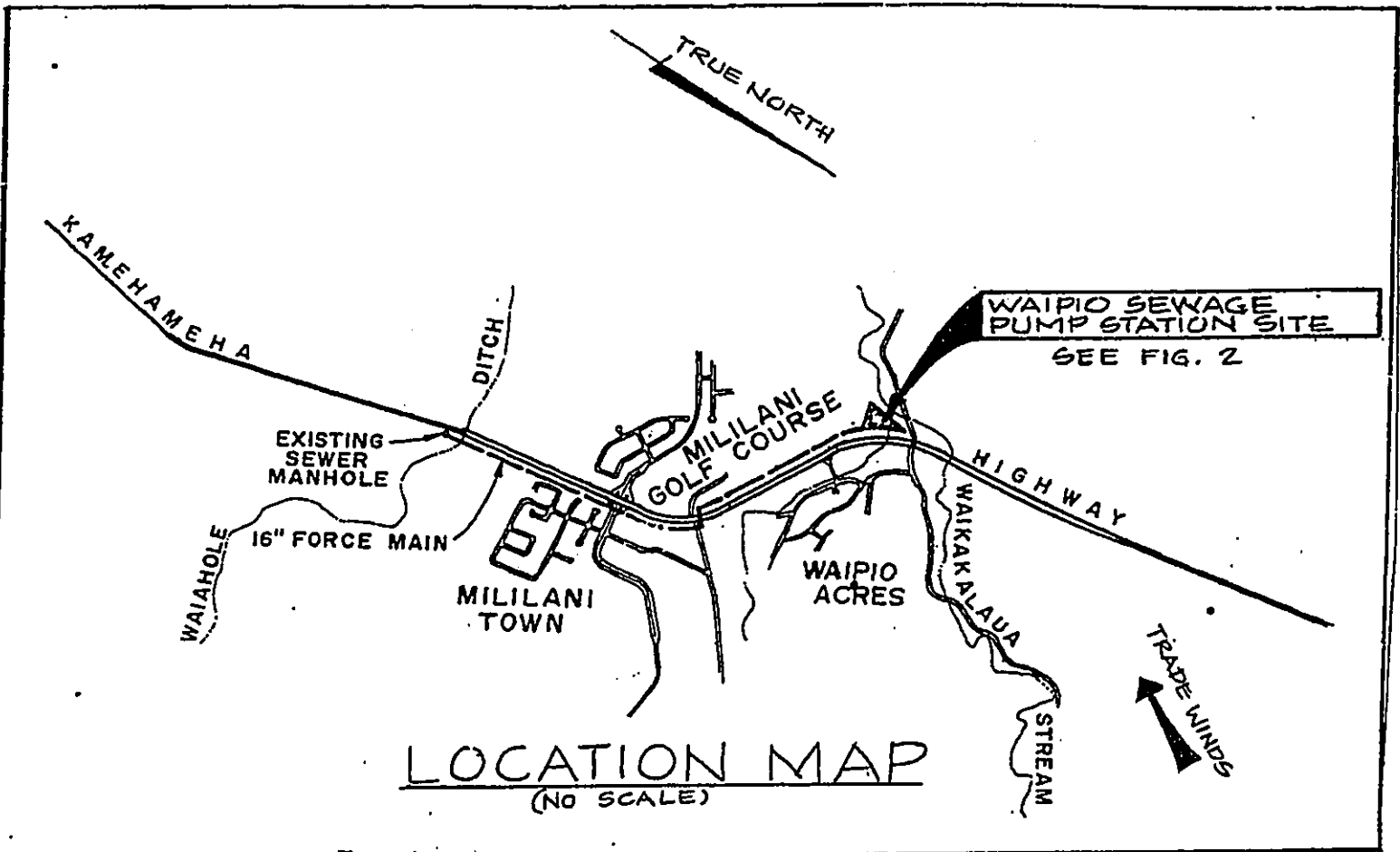


FIGURE 1

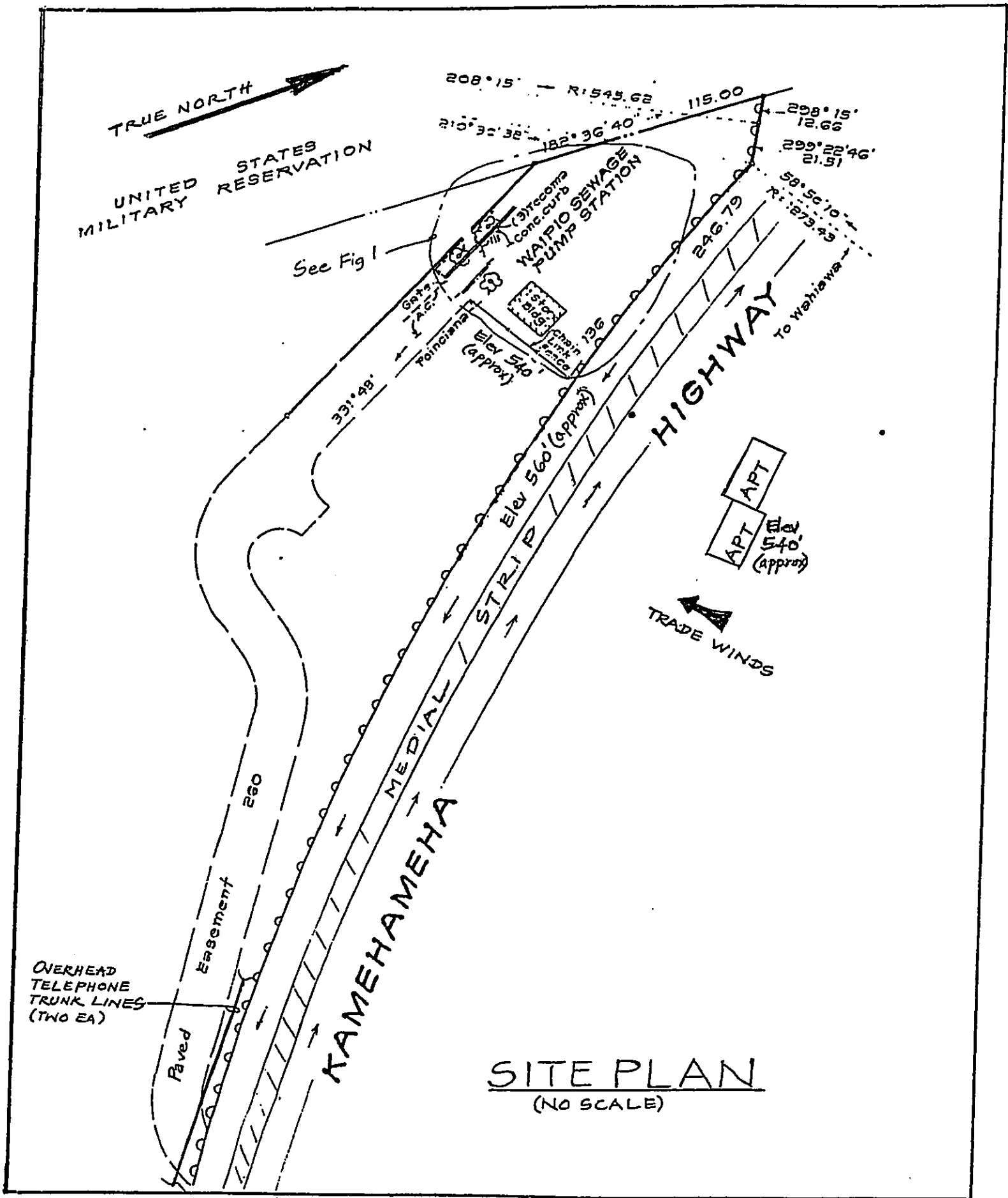


FIGURE 2