JEPARTMENT OF GENERAL PLANNING

CITY AND COUNTY OF HONOLULU

650 SOUTH KING STREET HONOLULU, HAWAII 96813

FRANK F. FASI



RECEIL

BENJAMIN B. LEE HIEF PLANNING OFFICE

ROLAND D. LIBBY, JR.
DEPUTY CHIEF PLANNING OFFICER

*91 APR -2 P12:25

VW 1/91-281

OFC. OF ERVINGA February 20, 1991 QUALITY CON

Honorable Bruce Anderson, Acting Director Office of Environmental Quality Control State of Hawaii Central Pacific Plaza 220 South King Street, 4th Floor Honolulu, Hawaii 96813

Dear Dr. Anderson:

NEGATIVE DECLARATION

LOCATION

PROPOSED ACTION

Waialae-Kahala, Oahu Tax Map Key: 3-3-12: por. 29 To redesignate 39,223 sq. ft. from Residential Commercial on the Primary Urban Center Development Plan Land Use Map

CONTACT

Hale Kulana Corp. 1123 11th Avenue, Suite 102 Honolulu, Hawaii 96816

REASONS SUPPORTING DETERMINATION

The anticipated effects of the proposed action based on the attached assessment are not significant enough under the criteria of Section 11-200-12 of the <u>EIS Rules</u> to warrant the preparation of an EIS.

This determination does not constitute approval of the applicant's request for a Development Plan amendment or subsequent development approvals.

3Y

Honorable Bruce Anderson, Acting Director Office of Environmental Quality Control February 20, 1991 Page 2

Should you have any questions, please contact Verne Winquist of our staff at 527-6044.

Sincerely,

BENJAMIN B. LEE Chief Planning Officer

BBL: js

cc: Hale Kulana Corp.

Attachments

RECEIVED

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C & C HOKOLULU

Application for Development Plan Amendment and Environmental Assessment

* Nohona Kahala Commercial Site *

TMK: 3-3-12: Portion of 29

Pending as:

Lot 59 of Nohona Kahala Subdivision File Plan Map

Mr. Ben Lee Director of Planning City and County of Honolulu Honolulu, Hawaii

Mr. Lee;

We have from the inception of this project advocated the re-zoning of this subject parcel from R-5 to B-2. This plan has been made known to both the neighborhood, and buyers in the new Nohona Kahala subdivision.

Planned for this site is a six story 100,000 gross square foot commercial building with two levels of underground parking. This building is part of a master-plan for the site and has been designed from the projects beginning to be a key feature in off-setting some of the dis-advantages this site posses for the new residences being constructed. The use of this site as a commercial site is consistent with use of neighboring parcels adjoining Waialae Avenue and is only prevented from being contiguous to adjacent B-2 by the intersecting Ocean View Cemetery. This parcel has been sub-divided into a separate parcel in preparation for re-zoning and has an adequate existing entry directly onto Waialae Avenue at the 21st Avenue intersection.

We advocate this Zoning Change for the following reasons:

1. Developement of this parcel as a residential site is possible but would be unfortunate.

a. The noise level from traffic in the Waialae Avenue/ 21st Avenue intersection is directed at this parcel by the compressing effect of the concrete over-pass at this intersection.

b. The southern situated concrete over-pass would shadow the residences built on the site.

c. The site is in a depression with the grade being ten feet below and down wind of higher residential lots and structures which would block the prevailing trade winds.

Please refer to the accompanying photographs and site map.

2. The re-zoning of this parcel to B-2 would not be a detriment to the community.

a. Traffic impact is the major and only concern we have heard regarding rezoning of this parcel to a commercial site. The enclosed traffic study verifies that with intersection improvements the level of service in this intersection would not deteriorate with full commercial use of this site.

Please refer to the accompanying traffic assessment study by Wilbur Smith and Associates.

b. The commercial building has been designed to allow penetration of sun-light to the newly constructed residences at Nohona Kahala.

c. The commercial building has been designed to serve as a landscaping base for continueing the landscaping themes of the Residential Cluster Subdivision thereby providing visual relief from the concrete over-pass.

Please refer to the accompanying Architectural concept drawing by Kajioka Okada Partners Inc. Architects.

Nohona Kahala Commercial Re-zoning application cover letter

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- 3. The re-zoning of this parcel to B-2 would be an asset to the community.

 a. The needed intersection improvements would be provided for the City by the Developer at no cost to the City.

 - b. These improvements would improve the level of service for traffic flow in this intersection during periods when this office building is not in full use.
 c. The proposed commercial building would screen the new residences from traffic noise in the subject intersection.

At your service;

Leonard H. McMullin Pres. Hale Kulana Inc. General Partner of Waialae Kahala Partners

Application for Development Plan Amendment and Environmental Assessment

Nohona Kahala Commercial Site

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Nohona Kahala Commercial Site

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Essential Information:

Applicant:

Hale Kulana Corporation

1123 11th avenue

Suite 102

Honolulu, Hawaii 96816

Phone: 734-2231

Landowner:

Waialae Kahala Partners

1123 11th avenue

Suite 102

Honolulu, Hawaii 96816

Phone: 734-2231

Request:

To amend the master development plan to allow commercial development of this parcel, changing the zoning from R-5 to B-2.

Area:

39,223 square feet

Location:

This parcel is a portion of the Old Waialae Drive-In site. It is Mauka of Waialae Avenue at the 21st Avenue intersection. This parcel is bound on the Kokohead side by Ocean View Cemetery, on the Makai side by Waialae Avenue, and by new residential development on the Ewa and Mauka sides of this parcel. It was the site of the old movie screen when

the Drive-in Theater was operational.

TMK:

Currently: 3-3-12: a portion of 29

Pending as: Lot 59 of Nohona Kahala Subdivision File Plan Map

Refer to page 3a following for TMK map.

Existing Use:

The site was an abandoned Drive-In Theater which had subsequently been used as a flea market and as a golf driving range. It is currently zoned R-5. The surrounding higher property, being farther from the Waialae Avenue / 21st Avenue intersection is currently being being developed as 55 single family homes.

State Land Use:

Urban

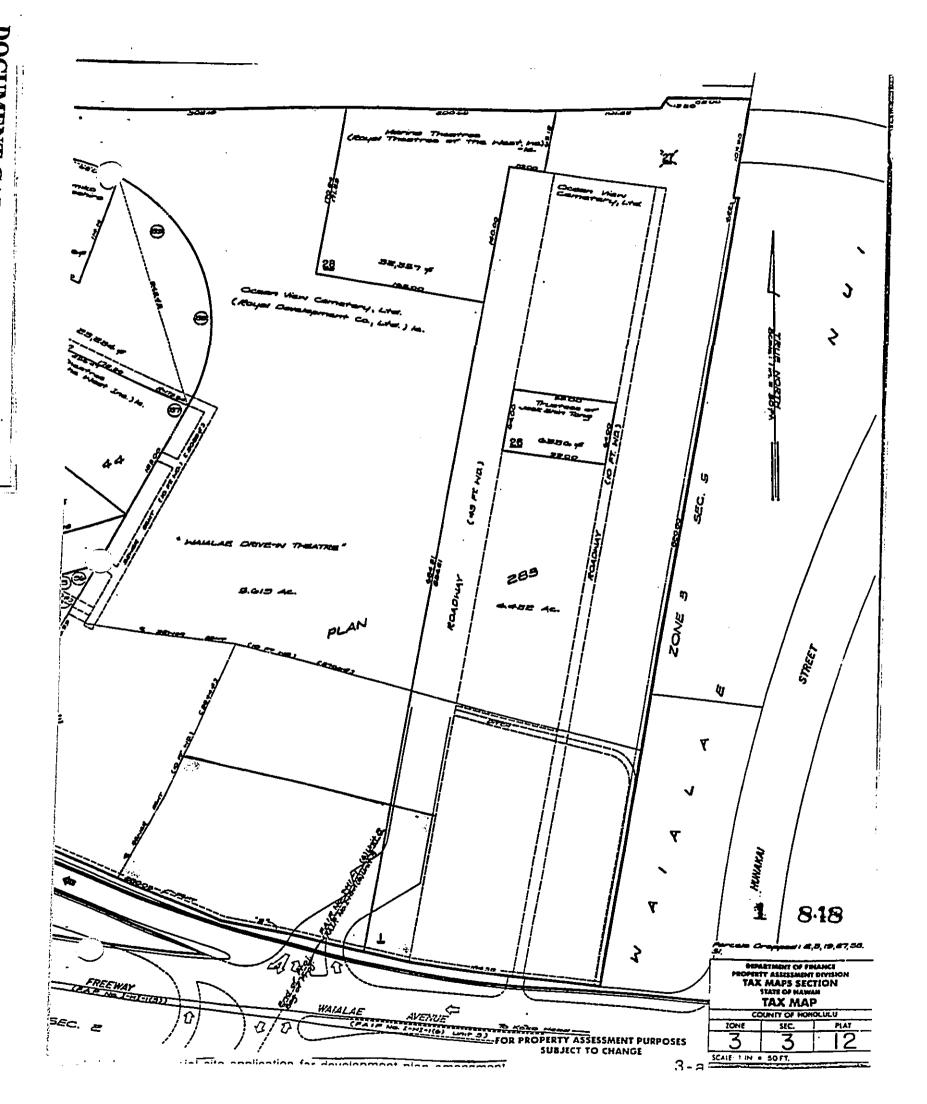
Development Plan Designation:

a. Land Use Map: Residential

b. Public Facilities Map: No indication of impedeing ROW's or utilities.

Zoning:

R-5 & P-2



Description of the Property:

Property Boundary:

Please refer to Exhibit "A" boundary description by R.M.Towill Engineering, pages A-1 & A-2, and Exhibit "B" a reproduction from the pending file map for the Nohona Kahala Subdivision lot 59.

Refer to page 4a for picture views of Mauka and Ewa boundaries Refer to page 4b for picture views of Makai and Kokohead boundaries.

Topography:

This parcel is relatively flat with level boundaries against Waialae Avenue on the Makai side, and Ocean View Cemetery on the Koko-Head Side. The existing grade for this site is 50 - 52 feet elevation and. The Mauka and Ewa sides of this parcel are bounded by grades approximately 10 feet in elevation higher than this parcel. The most significant physical feature is the close proximity of the concrete over-pass 35' above this parcel on its Makai boundary.

Refer to page 4c for picture view of entire site from Ewa Mauka corner.

Slope: The parcel slopes from its Mauka Ewa corner to its Makai/Koko-Head corner at approximately 1% slope. Please refer to enclosed topographical map, Exhibit "C".

Soils: Soils on this site are partly clay and boulder fills and partly lava rock formation. Indications from borings B-11 and B-12 are that this site was used as a land-fill prior to the Drive-Ins construction. The rock formations necessary for adequate commercial building foundations are compatible at depth with the required two levels of under-ground parking.

Please refer to Exhibit "C" for boring locations designated "B-11 & "B-12"

Please refer to Exhibit "D", soils report excerpts from Walter Lum & Associates Nohona Kahala Soils Report. The excerpts are specific to the proposed commercial site. A full report can be transmitted upon request.

Location Map:

See Pages 5 & 6 Following.

Topo Map: Please refer to Exhibit "C".

Project Layout:

See Page 7 following for ground floor layout. See Page 8 following for levels 1&2 under-ground parking lay-out.



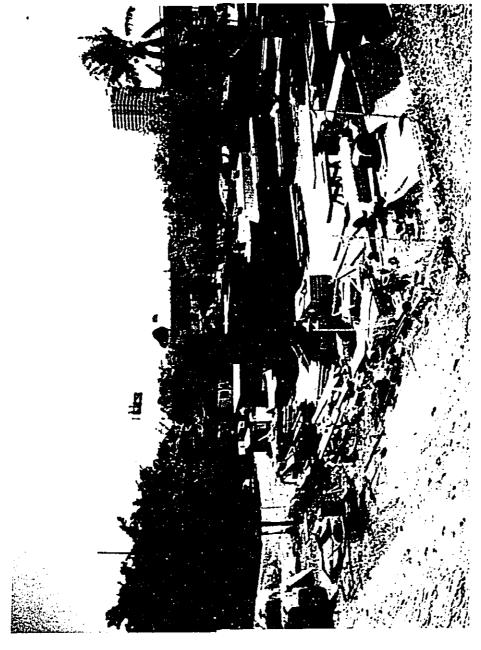


Site entry and makai boundary from inside site (below)

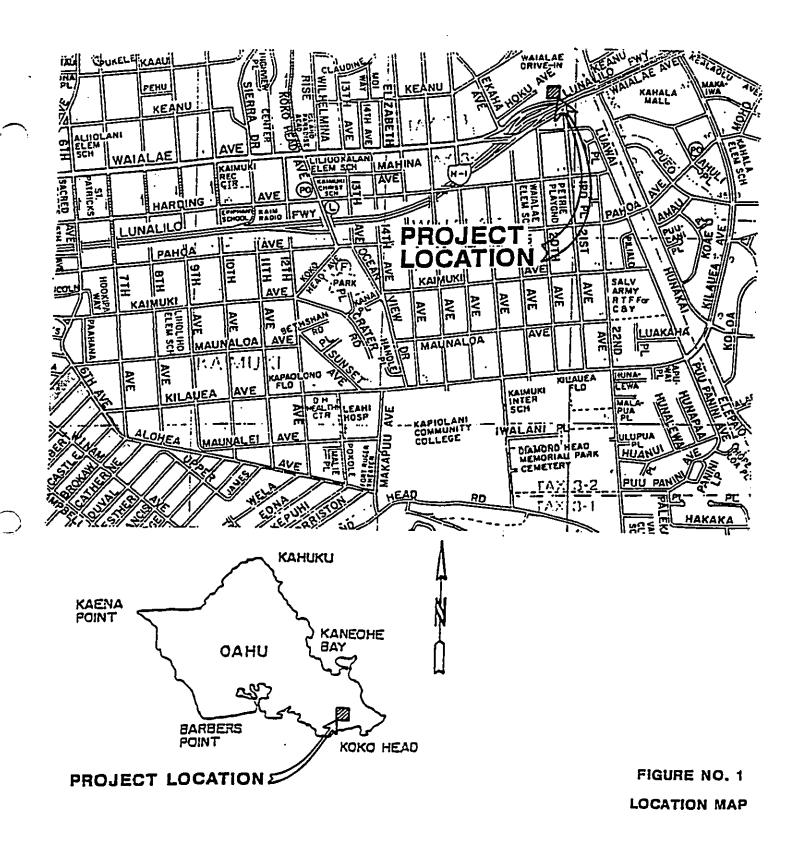


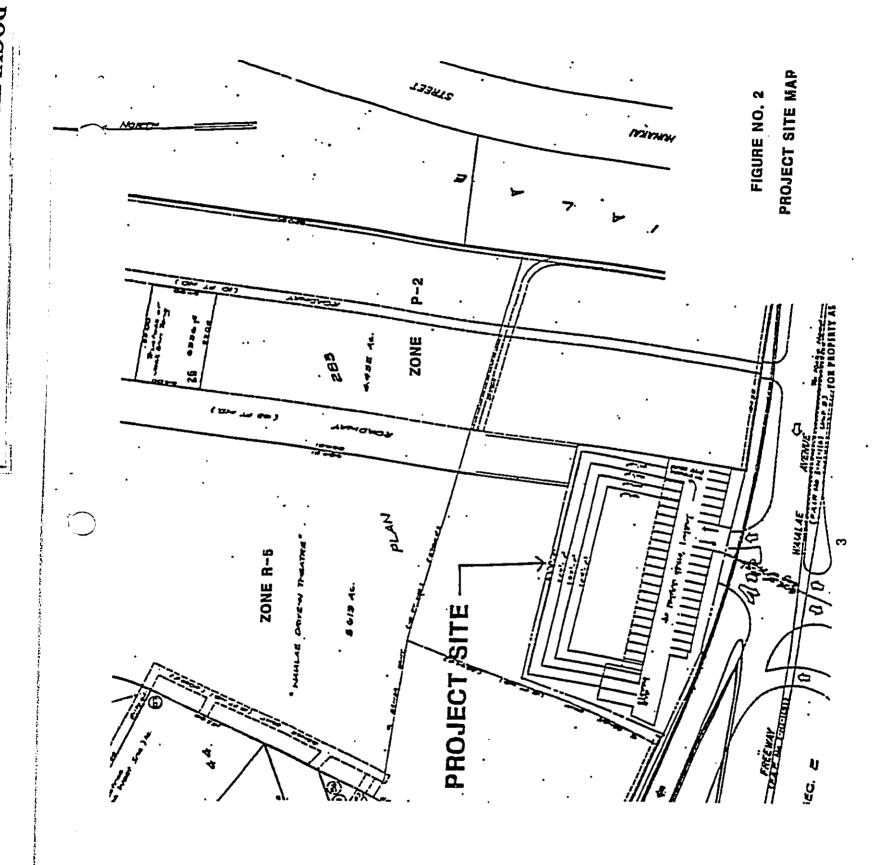
Kokohead boundary view of Ocean View Cemetery from inside parcel(below)

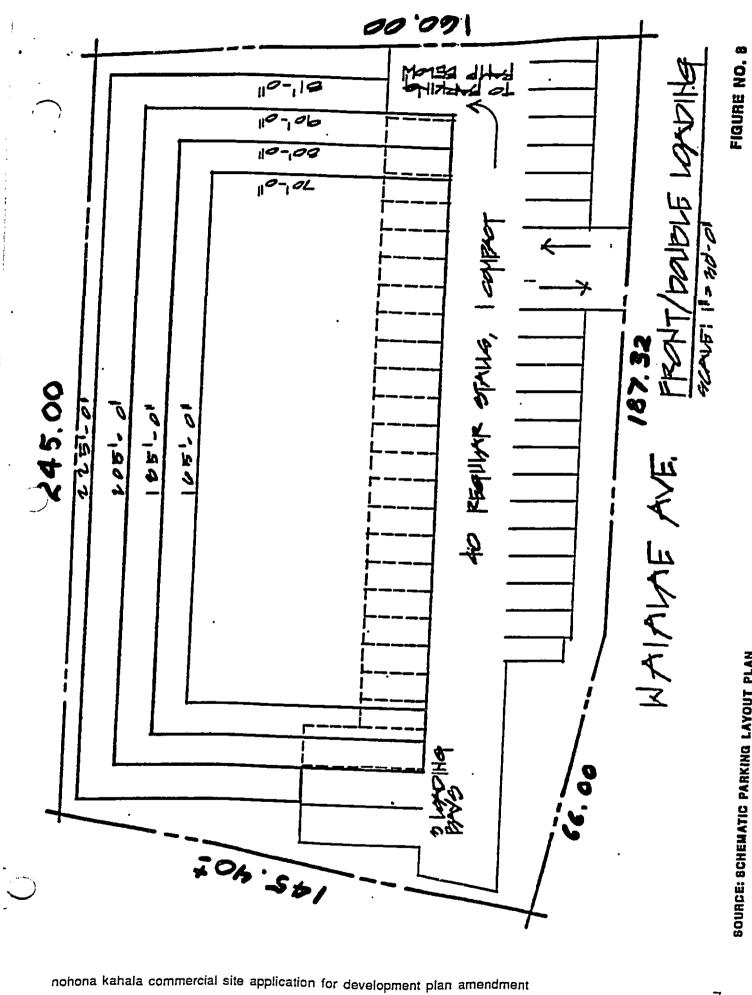




Over-view of site from ewa - muka corner







SOURCE: BCHEMATIC PARKING LAYOUT PLAN BY KAJIOKA, OKADA 4 PARTNERS, INC.

OFF-STREET PARKING

LAYOUT-GROUND FLOO!

nohona kahala commercial site application for development plan amendment

WERRENITO EXPLINE WHEND

FIGURE NO. 9

OFF-STREET PARKING

LAYOUT-BASEMENT LEVE

SOURCE: SCHEMATIC PARKING LAYOUT PLAN BY KAJIOKA, OKADA & PARTNERS, INC.

DIVELOPMENT PROPOSAL

The Residence of the Control of the

Development Proposal:

A. Applicants proposed use of land.

This parcel is to be developed as a 100,000 square foot commercial office building. Use is limited to office and professional lease space. Retail and food establishments are not included in this proposed use.

This building is an integral part of the master-plan for Nohona Kahala. From Projects inception this specific site has been designated for commercial use. It is intended to screen the newly constructed residences from H-1 and Waialae Avenue road noise. It is designed as a landscaped terrace building to replicate and continue the landscaping theme of Nohona Kahala Cluster Subdivision. This terraced landscaping approach is intended to mirror the terraced landscaping of the Makai retaining walls and the terraced appearance of the project itself. The stepped back building terraces are also intended to allow sun-light to penetrate to the newly constructed residences. The residential portion of this development was designed for and successfully marketed to local owner occupant professional families. A pedestrian access walk way has been provided adjacent to residential lot 1 for foot traffic access for Nohona Kahala residents to and from their potential work-places in this commercial building. Home buyers in some instances are planning to relocate their offices to this building should rezoning occur.

During residential marketing, the question of the unattractive view of the freeway and the unpleasant freeway noise was raised numerous times. The answer that we could provide was that the master plan called for placement of a 5-story commercial building to block the unattractive view and noise of the freeway and Waialae Avenue. The integral landscaping design, repeated terrace design, and close proximity for potential work-place access was greated with approval.

B. Development Timetable:

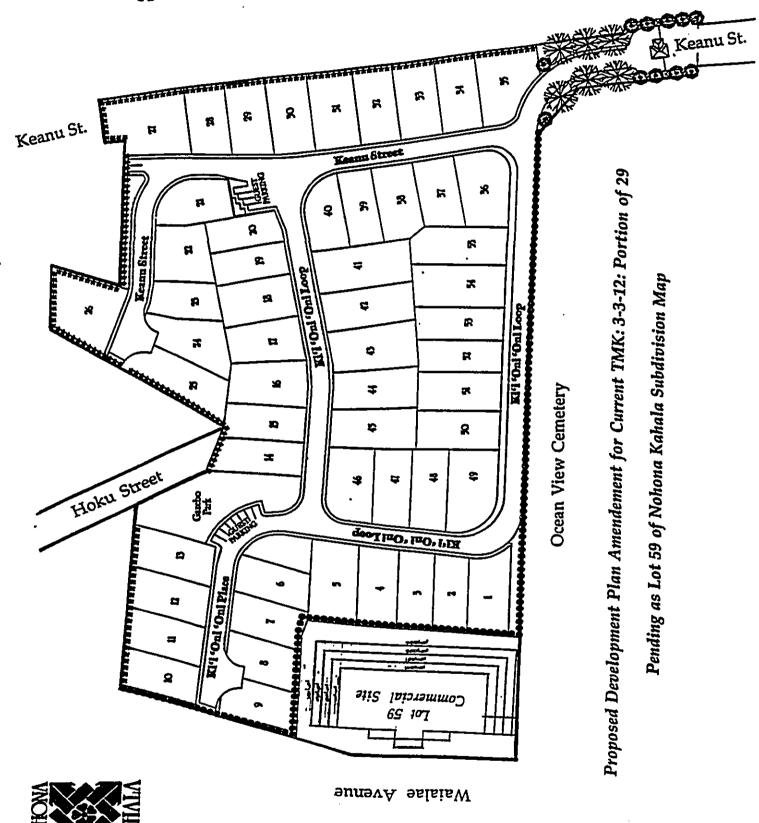
We expect an eighteen month design approval and construction schedule following a successful rezoning effort. Tentative project finish would be winter of 1993.

C. Approximate Development Cost:

Development cost of this project is expected to be \$14,700,000.00 dollars. This is gross cost inclusive of finance, landscaping, indirect and direct costs. Also included in this cost estimate is \$500,000.00 for mitigating intersection improvements to Waialae Avenue at the 21st Ave. intersection.

Please Refer to Master Plan Map page 9a following.





NEED FOR PROPOSED
DEVELOPMENT

Andread designation for the property of the second second

Need for Proposed Development:

A. Public problem:

- 1. The site is not well suited for residential development. It is faced with the following problems:
 - a. Noise from the Waialae Avenue / 21st Avenue intersection is particularly obtrusive at this location. The noise of the under-freeway traffic is compressed and directed into this location by the over-head concrete in much the same manner as sound through a card-board tube or megaphone.
 - b. The over-pass shadows this site from sun-light in afternoon and evening hours.
 - c. The site is 10' lower than adjacent up-wind residences thereby blocking prevailing trade winds to this site.
 - d. The view for the residences mauka of the freeway is undesireable at freeway level.

Refer to page 10a for picture view of mauka boundary depicting shadowing beginning at 1:00 P.M., noise source, and undesireable view.

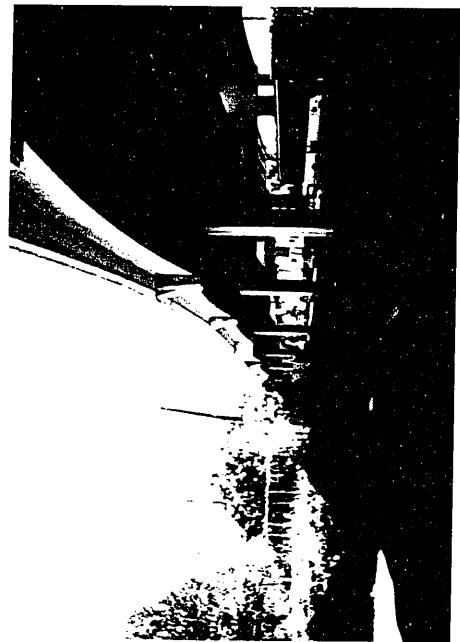
- There is a shortage of commercial lease space in Eastern Oahu which affects both commuting professionals and residents.
 - a. Commuting professionals from Hawaii Kai, Hawaii Loa Ridge, Kahala etc... must travel farther and longer on roads burdened with traffic to reach Central Oahu office space. Research of available office lease space in the Waialae Kahala area yielded little available office space mandating longer commutes for Eastern Oahu residents to the available office space of Central Oahu.
 - b. Residents of Eastern Oahu served by these professionals are faced with the same travel circumstance as their commuting workforce counterparts.

B. Intended Market:

The professional office space in this proposed site will serve the Eastern Oahu professional population from Hawaii Kai to Kaimuki. Due to its close proximity to these areas, the intended market for this buildings' tenants will be local businesses, locally owned and operated by residents of these East Oahu communities.

C. Designated use vs. Intended Use.

The designated use for the Nohona Kahala site as residential is correct and appropriate for the majority of the site. This one low corner adjacent and affected by Waialae Avenue is not best used for residential building. The intended use is not affected by the adverse conditions facing a residential building on the same site. The intended use is consistent with the zoning shared by similar parcels along Waialae Avenue. The designated use is possible but a poor alternative. The designated use would provide five new homes in a poor location at prices inconsistent with the quality of life in this section of the project. The designated use would serve five families poorly. The intended use serves the community of new homes with visual and noise relief while serving the East Oahu communities with office space closer to home and with shorter travel time.



Makai boundary looking kokohead showing shadowing beginnign at 1:00p.m., noise source and undesirable view.

FEDERAL, STATE & CITY

FEDERAL, STATE AND CITY PLANS AND PROGRAMS INVOLVED

FEDERAL:

There is no apparent federal interest or jurisdiction over this parcel.

STATE:

The current state plan for this parcel is designated Urban.

CITY

1. General Plan

The subject Parcel is adjacent and opposite commercial zoned land bordering the Waialae Avenue corridor. Residential neighborhoods abutt this parcel on the Ewa side.

- 2. Development Plan Current Zoning lot 59 is R-5 and P-2.
 - a. Common Provisions According to City Plan Maps, the following provisions apply:

Set-Backs - No special set back requirements exist under the current zoning.

CZC - Is currently listed as 06.

Flood Zone - X

- b. Special Provisions No special provisions appear to apply including Historic district, SMA, or other special district.
- c. Land Use Map Residential
- d. Public Facilities Map No right-of-ways or other special public encroachments are noted.

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Nohona Kahala Commercial Building Re-Zoning application

Demographic & Economic Impact

The demographic impact on this community would be negligible and the economic impact of this project on the surrounding community is estimated to be small but positive.

This development is expected to serve the residents of East Oahu. This is due to the conformity of the development with the demographic profile of the community it serves. The profile of local residents indicates the majority work in professional services of the type targeted for this development and that the

majority of these persons must commute significant distances to work.

Currently, there is insufficient local office professional space to service the residents of this community, (reference office & retail vacancy analysis and summary by Grubb & Ellis for the Kahala area.) This lack of space causes residents to commute to the office and work-place facilities available. Extended commute times directly cost the commuter and indirectly burden the local road systems. This is further

substantiated by the extremely low vacancy rates for commercial property in East Oahu.

Vacancy rates for commercial buildings in this area average 1.52% which is approximately 33% lower than Oahu averages as a whole. This current demand for commercial space indicates that the development would be absorbed and used by current local demand rather.

It is highly unlikely therefore that this development would significantly after the growth pattern or

It is highly unlikely therefore that this development would significantly alter the growth pattern or demographic makeup of this neighborhood.

Reference: Population Facts Data Report by Equifax Marketing pages 13a - 13g following, and The retail commercial survey December 1990 by Grubb & Ellis marketing research pages 13h - 13 k following.

Economic Impacts:

Negative economic impacts are minimal as increased costs to the community in terms of increased tax burden for municipal services are not present in this proposed project.

- a. Refuse collection: by private firm with no cost to city.
- b. Fire Protection: In initial inquiry, the fire department estimated that their existing fire equipment and personnel were adequate to provide fire protection to this new commercial building.
- c. Police Protection: In initial inquiry, the police department responded in the same manner as the fire department in that they believed on preliminary inquiry that their existing service personnel were adequate to provide police protection as this building would warrant without the addition of additional personnel or equipment.
 - d. Educational burden: As a commercial building, no added burden on the educational facilities of this area would be expected.
- e. Road Service: Costs of improving the intersections for mitigating traffic impact and to increase serviceability of the two affected intersections would be paid by the owner.

Economic benefits to be derived from the re-zoning of this parcel to B-2 and the resulting construction of this commercial building would be two-part:

- 1. Higher tax income to the City for the same area of land.
 - a. The property taxes paid currently on this property amount to \$3,878.00 annually.
 - b. The property tax projected to be paid to the city if developed under current zoning would be \$14,850.00 annually.
 - The property tax projected to be paid to the City if developed as applied for would be \$132,300 annually.
 - d. The result of this re-zoning would be the highest alternative of tax base available to the City for this land.
- 2. Decreased commute expense for local residents served by this development:
 - a. Less than 11% of the local work-force now lives within 10 minutes of their work-place.
 - b. More than 74% of the local population commute 15 minutes or more to their workplace.
 - c. Slightly over 80% of the local residents are employeed in office based job descriptions which would make use of this proposed office building; such as executive and managerial, professional specialty, sales, administrative support etc....

Summary: The majority of local residents commute to work. The demographic profile of this community indicates that the largest majority work are employeed in professions which would use this development. Therefore this re-zoning and building development would serve the largest percentage of area residents with a workplace close at hand.

Reference: Population Facts Data Report by Equifax Marketing pages 13a - 13g following, and The retail commercial survey December 1990 by Grubb & Ellis marketing research pages 13h - 13 k following.

02/06/91

POP-FACTS: FULL DATA REPORT
(CENSUS '80, UPDATES & PROJECTIONS)
BY EQUIFAX MARKETING DECISION SYSTEMS 800-877-5560
PREPARED FOR
GRUBB & ELLIS 139
SITE: 29:

· GRUBB & ELL	IS 139		
WAIALAE AND HUNAKAI HONOLULU, HI	CC	SITE: 291 ORD: 21: 16.90	1242) 157:47.40
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POPULATION 1995 PROJECTION 1990 ESTIMATE 1980 CENSUS 1970 CENSUS GROWTH 70-80	26,294 26,224 25,755 27,581 -6,62%	131,994 130,674 126,300 125,773 0.42\$	217,570 214,706 206,264 196,617 4.91%
HOUSEHOLDS 1995 PROJECTION 1990 ESTIMATE 1980 CENSUS 1970 CENSUS GROWTH 70-80	8,789 8,757 8,487 7,768 9.25%	50,031 48,380 46,252 38,652 19.66%	87,264 82,134 64,846
POPULATION BY RACE & SPANISH ORIGIN WHITE BLACK AMERICAN INDIAN ASIAN & PACIFIC ISLANDER OTHER RACES SPANISH ORIGIN - NEW CATEGORY	25,755 32.98% 0.17% 0.15% 63.19% 3.51% 2.72%	126,300 29.21% 0.44% 0.18% 65.91% 4.26% 3.71%	0.\$5 % 0.18 % 64.49 % 4.09 %
OCCUPIED UNITS OWNER OCCUPIED RENTER OCCUPIED 1980 PERSONS PER HOUSEHOLD	8,487 68.23% 31.77% 3.00	46,252 49.51% 50.49% 2.63	
YEAR ROUND UNITS AT ADDRESS SINGLE UNITS 2 TO 9 UNITS 10+ UNITS MOBILE HOME OR TRAILER SINGLE/MULTIPLE UNIT RATIO	8,831 76.03% 17.62% 6.32% 0.03% 3.18	35.59%	16.39% 42.08%
1990 ESTIMATED HOUSEHOLDS BY INCOME \$75,000 OR MORE \$50,000 TO \$74,999 \$35,000 TO \$49,999 \$25,000 TO \$34,999 \$15,000 TO \$24,999 \$7,500 TO \$14,999 UNDER \$7,500	8,757 35.17\$ 21.56\$ 14.96\$ 9.69\$ 9.75\$ 5.48\$	48,380 20.90% 18.00% 17.12% 13.65% 15.30% 9.58% 5.44%	87,264 17.86% 16.66% 17.19% 14.40% 16.55% 10.42% 6.92%
1990 ESTIMATED AVERAGE HH INCOME 1990 ESTIMATED MEDIAN HH INCOME 1990 ESTIMATED PER CAPITA INCOME	\$71,295 \$60,014 \$23,625	\$52,073 \$43,809 \$19,388	\$47,149 \$40,250 \$19,259

02/06/91

POP-FACTS: FULL DATA REPORT (CENSUS ' 80, UPDATES & PROJECTIONS) BY EQUIPAX MARKETING DECISION SYSTEMS 800-877-5560 PREPARED FOR GRUBB & ELLIS 139

WAIALAE AND HUNAKAI HONOLULU, HI	:	CC 253	SITE: 291 DORD: 21:16.90	242 157:47.40
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POPULATION BY SEX	٠.	25,755 48.68% 51.32%	126,300 48.87% 51.13%	206,264 48.49% 51.51%
POPULATION BY AGE UNDER 5 YEARS 5 TO 9 YEARS 10 TO 14 YEARS 15 TO 19 YEARS 20 TO 24 YEARS 25 TO 29 YEARS 30 TO 34 YEARS 35 TO 44 YEARS 45 TO 54 YEARS 55 TO 59 YEARS 60 TO 64 YEARS 65 TO 74 YEARS 75+ YEARS		25,755 4.08% 4.79% 6.26% 7.83% 8.21% 8.44% 7.75% 10.86% 13.31% 8.15% 7.01% 8.46% 4.84%	126,300 4.38% 4.44% 5.32% 7.93% 11.17% 10.56% 8.76% 10.52% 11.66% 7.14% 6.26% 7.57% 4.28%	206,264 4.45% 4.25% 4.97% 7.20% 10.85% 11.20% 9.28% 11.00% 11.59% 6.06% 7.70% 4.50%
MEDIAN AGE AVERAGE AGE		37.75 39.25	34.85 37.63	35.11 37.91
FEMALE POPULATION BY AGE UNDER 5 YEARS 5 TO 9 YEARS 10 TO 14 YEARS 15 TO 19 YEARS 20 TO 24 YEARS 25 TO 29 YEARS 30 TO 34 YEARS 35 TO 44 YEARS 45 TO 54 YEARS 55 TO 59 YEARS 60 TO 64 YEARS 65 TO 74 YEARS 75+ YEARS		13,217 3.87\$ 4.53\$ 6.00\$ 7.51\$ 7.21\$ 7.23\$ 11.16\$ 8.20\$ 6.95\$ 8.46\$ 5.83\$	64,577 4.14* 4.25* 5.10* 7.98* 11.07* 10.09* 8.21* 10.15* 12.48* 7.43* 6.33* 7.74* 5.02*	106,244 4.22% 4.05% 4.75% 7.19% 10.91% 10.89% 8.73% 10.55% 12.21% 7.15% 6.14% 7.92% 5.30%
FEMALE MEDIAN AGE FEMALE AVERAGE AGE		35.65 40.22	33.48 38.47	33.97 38.72
POPULATION BY HOUSEHOLD TYP FAMILY HOUSEHOLDS NON FAMILY HOUSEHOLDS GROUP QUARTERS	PE	25,755 88.62% 10.08% 1.30%	126,300 79.45% 16.81% 3.74%	206,264 76.88\$ 20.40\$ 2.73\$

02/06/91

POP-FACTS: FULL DATA REPORT (CENSUS ' 80, UPDATES & PROJECTIONS) BY EQUIFAX MARKETING DECISION SYSTEMS 800-877-5560 PREPARED FOR GRUBB & ELLIS 139

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HISPANIC POPULATION BY RACE WHITE BLACK AMERICAN INDIAN & ASIAN OTHER RACE	701	A 60A	7,888
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MUTATE	37.925	33.98%	33.10%
BLACK	0.14%	0.68%	0.85%
AMERICAN INDIAN & ASIAN	0.148 42.228 19.728	0.68% 45.81% 19.53%	45.44%
OTHER PACE	10 728	10 524	20.60%
HISPANIC POPULATION BY TYPE NOT OF HISPANIC ORIGIN MEXICAN PUERTO RICAN CUBAN OTHER SPANISH		'	
HISPANIC POPULATION BY TYPE	25,755	126,300	205,264~
NOT OF HISPANIC ORIGIN	97.28%	96.29%	96.18%
MEXICAN	0.45%	0.482	0.529
DIFFUND DICKY	0.430	0.40%	0.525
AIDAIN AICAN	0.446	96.29% 0.48% 0.67%	0.708
CUBAN	0.01%	0.03%	0.02%
OTHER SPANISH	1.83%	2.53%	2.58%
MARITAL STATUS PERSONS 15+ SINGLE MARRIED SEPARATED WIDOWED DIVORCED	21 858	108 437	178,071
CTMCLD	21.000	100/457	1,0,0,7
\$11.000.00 \$11.0000	37.004	30.034	35.13 <u>%</u>
MARRIED	54.95%	48.21%	47.39%
SEPARATED	0.77%	36.03% 48.21% 1.33%	1.55%
WIDOWED	6.85%	6.25%	6.60%
DIVORCED	6.37%	8.18	0.00%
DT 4.01/011D	0.3/4	0.704	9.34%
Windle and was an annual and an annual and an			
MARITAL STATUS OF FEMALES 15+	11,314	55,862	92.409
Single	27.24%	32.07%	31.40%
MARRIED	52.96	46 703	45 504
SEPARATED	0.019	1.49%	45.50%
WIDOWED	0.572	1.496	1.67%
	11.26%	10.21%	10.64%
DIVORCED	7.62%	1.49% 10.21% 9.53%	10.70%
PERSONS IN UNIT 1 PERSON UNITS 2 PERSON UNITS	\$ 487	46,252	02 124
1 PERSON UNITS	14 00%	40/202	82,134
2 PERSON UNITS	14.904	40.335	30.32%
2 PERSON UNITS	31.10*	32.24%	33.13%
3 PERSON UNITS	21.06%	17.78%	15.86%
4 PERSON UNITS	17-27%	12.90% 6.37% 5.38%	11.03%
5 PERSON UNITS	0 769	6 274	44.034
6+ PERSON UNITS	6.705	0.3/4	5.30%
da berzon outiz	6.92%	5.38%	4.37%
STRACTA DI PRIMA			
PERSONS IN RENTER UNITS	2,697	23,354	44,993
1 PERSON UNITS	25.31%	34.73%	38.77%
2 PERSON UNITS			
	29.55%	31.85%	32.60%
3 PERSON UNITS	20.94%	16.14%	14.13%
4 PERSON UNITS	13.68%	9.65%	8.33%
5 PERSON UNITS	5.62%	4.13%	3.48%
6+ PERSON UNITS	4.90%	3.50%	
	オ・コレル	3.50%	2.69%

02/06/91

POP-FACTS: FULL DATA REPORT (CENSUS ' 80, UPDATES & PROJECTIONS) BY EQUIFAX MARKETING DECISION SYSTEMS 800-877-5560 PREPARED FOR GRUBB & ELLIS 139

SITE: 291242 COORD:21:16.90 157:47.40 WAIALAE AND HUNAKAI HONOLULU, HI 1.0 MILE 3.0 MILE 5.0 MILE ON RADIUS RADIUS DESCRIPTION 8,487 46,252 82,134
6.24% 11.88% 14.00%
8.66% 13.45% 16.31%
64.72% 51.52% 46.99%
3.55% 3.72% 3.51%
10.53% 10.76% 10.15%
3.63% 5.13% 5.37%
2.68% 3.54% 3.66% HOUSEHOLDS BY TYPE
SINGLE MALE
SINGLE FEMALE
MARRIED COUPLE
OTHER FAMILY - MALE HEAD
OTHER FAMILY - FEMALE HEAD
NON FAMILY - MALE HEAD
NON FAMILY - FEMALE HEAD 2,883 13,100 80.06% 74.19% 3.58% 4.49% 15.45% 20.16% 0.91% 1.16% 20,812 72.62* HOUSEHOLDS WITH CHILDREN 0-18
MARRIED COUPLE FAMILY
OTHER FAMILY - MALE HEAD
OTHER FAMILY - FEMALE HEAD
NON FAMILY 4.72% 21.33\$ 1980 OWNER OCCUPIED PROPERTY VALUES
UNDER \$25,000
\$25,000 TO \$39,999
\$40,000 TO \$49,999
\$50,000 TO \$79,999
\$80,000 TO \$99,999
\$100,000 TO \$149,000
\$150,000 TO \$199,999
\$200,000+ 14,517 0.57% 1.03% 1.21% 7.90% 4,487 0.29% 0.66% 19,833 1.40\$ 0.64% 6.14% 7.67% 24.79% 1.378 .80% 20.69% 29.86% 9.53% 27.76% 9,94% 28.80% 20.69% 29.86% 20.20% 21.22% 29.42% 39.62% \$161,751 \$151,706 \$152,179 1980 MEDIAN PROPERTY VALUE 25,755 126,300 206,264 100.00% 100.00% 100.00% POPULATION BY URBAN VS RURAL 100-00% URBAN \$00.0 800.0 RURAL 6,557 32,883 5.044 3.918 39.128 33.888 25.308 20.818 30.548 41.408 POPULATION ENROLLED IN SCHOOL NURSERY SCHOOL KINDERGARTEN & ELEMENTARY (1-8) HIGH SCHOOL (9-12) 49,360 4.04% 35.06% 20.80% 40.10% 17,689 84,279
11.48% 12.67%
7.38% 8.99%
32.74% 32.76%
17.29% 17.65%
31.11% 27.93% POPULATION 25+ BY EDUCATION LEVEL ELEMENTARY (0-8) SOME HIGH SCHOOL (9-11) HIGH SCHOOL GRADUATE (12) SOME COLLEGE (13-15) 140,944 8.91% 32.40% 18.26% 28.05% COLLEGE GRADUATE (16+)

02/06/91

POP-FACTS: FULL DATA REPORT

(CENSUS ' 80, UPDATES & PROJECTIONS)

BY EQUIFAX MARKETING DECISION SYSTEMS 800-877-5560

PREPARED FOR

GRUBB & ELLIS 139

SITE: 291

WAIALAE AND HUNAKAI	mus 139		
WAIALAE AND HUNAKAI HONOLULU, HI	C	SITE: 29	91242
		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	70 15/;47,4 
DESCRIPTION	1.0 MILE	3.0 MILE	5.0 MIL
自然的 化自然性 计自己自己 连续 计工作员 电子电影 医电子电影 化 化丁二基苯	RADIUS	radius	RADIUS
NATURE SAME	~~~~~		
POPULATION 16+ BY OCCUPATION EXECUTIVE AND MANAGERIAL PROFESSIONAL SPECIALTY TECHNICAL SUPPORT SALES ADMINISTRATIVE SUPPORT SERVICE: PRIVATE HOUSEHOLD SERVICE: PROTECTIVE SERVICE: OTHER	13.830	60 106	334 60-
PROFESCOTAL AND MANAGERIAL	16.96%	14 306	114,725
PROPESSIONAL SPECIALTY	17.213	14 064	14.73
SYLEGUATORY SUPPORT	2.994	3 169	14.93
ADMINICADAMENT AND AND	14.78%	13.419	3.08
SERVICE DETVINE MANAGEMENT	18.38%	19.142	10.00
SERVICE: PRIVATE HOUSEHOLD	0.60%	0.528	47.48°
SERVICE: OTHER	0.87%	1.08%	1 20
FARMING FOREGRAV & TECTION	12.73%	15.26%	14 74
PRECISION PRODUCTION 5 000	1.00%	1.08%	44.744 1 024
MACHINE OPERATOR	8.04%	9.21%	9 021
TRANSPORTATION C MAMPRITAL MANAGEMENT	2.35%	2.51%	2 569
LABORERS LABORERS	1.60%	2.42%	2.439
ADMINISTRATIVE SUPPORT  SERVICE: PRIVATE HOUSEHOLD  SERVICE: PROTECTIVE  SERVICE: OTHER  FARMING FORESTRY & FISHING  PRECISION PRODUCTION & CRAFT  MACHINE OPERATOR  TRANSPORTATION & MATERIAL MOVING  LABORERS  FEMALES 16+ WITH CHILDREN COLOR	2.48%	2.95%	2.83
FEMALES 16+ WITH CHILDREN 0-18 WORKING WITH CHILD UNDER 6 NOT WORKING WITH CHILD UNDER 6 WORKING WITH CHILD 6-18 ONLY NOT WORKING WITH CHILD 6-18 ONLY OUSEHOLDS BY NUMBER OF UPHICERS	0.444		4000
WORKING WITH CHILD UNDER 6	2,639	12,114	19.177
NOT WORKING WITH CHILD UNDER 6	22.58*	22.95%	24.18
WORKING WITH CHILD 6-18 ONLY	₹2°T2\$	17.23%	17.994
NOT WORKING WITH CHILD 6-18 ONLY	45.8U\$	43.04%	42.26%
Olichiat na mar amar a mar	TO . 4 / 4	16.77%	15.57%
OUSEHOLDS BY NUMBER OF VEHICLES NO VEHICLES 1 VEHICLE 2 VEHICLES 3+ VEHICLES ESTIMATED TOTAL VEHICLES DPULATION BY TRAVEL TIME TO MORE	8.461	46 222	
NO VENICLES	7.453	40,232 16 400	82,168
5 AEUTOTE	34.30%	42 614 T3.474	17.81%
34 Abatores	37.18%	ማራ ማቸው የጉል ምድ	46.92%
ESTIMATED MOMENT AND A CONTRACTOR	21.07%	13 005	24.143
TOTAL VEHICLES	14,899	65.607	77-124
OPULATION BY TRAVEL TIME TO WORK UNDER 5 MINUTES	<b>,</b> . = <b>-</b>	05,00,	107,475
OPULATION BY TRAVEL TIME TO WORK UNDER 5 MINUTES 5 TO 9 MINUTES 10 TO 14 MINUTES 15 TO 19 MINUTES 20 TO 29 MINUTES 30 TO 44 MINUTES 45 TO 59 MINUTES	12,914	65.393	108 620
5 TO 9 MINUTES	1.49%	2.14%	1 000
10 TO 14 MINUTES	9.26%	9.22%	4.39%
15 TO 19 MINUTES	14.81%	17.65%	19 499
20 TO 29 MINUTES	24.52%	23.98%	23.952
30 TO 44 MINUTES	28.06%	25.25%	24.09%
TO TO DO MINUTES		~~ + > JD	15.28%
60+ MINUTES	4.27%	3.73%	3.30%
AVERAGE TRAVEL TIME IN MINUTES	2.32%	2.09%	2.05%
	20.08	19.45	19.01
PULATION BY TRANSPORTATION TO WORK	12 425		
	13,435 60.44%	67,186	111,858
CAR POOL	23.94%	53.78%	53.21%
PUBLIC TRANSPORTATION WALKED ONLY	8.92%	21.81%	21.46%
OTHER MEANS	2.68%	12.63%	13.00%
WORKED AT HOME	1.96%	7.33% 2.24%	8.11%
MATCHE WE WOULD	2.06%	2.24*	2.13%
	=-400	<b>∠ . ∠ 1</b> €	2-08%

02/06/91

POP-FACTS: FULL DATA REPORT
(CENSUS ' 80, UPDATES & PROJECTIONS)
BY EQUIFAX MARKETING DECISION SYSTEMS 800-877-5560
PREPARED FOR
GRUBB & ELLIS 139

WAIALAE AND HUNAKAI HONOLULU, HI SITE: 291242 COORD:21:16.90 157:47.40 1.0 MILE 3.0 MILE 5.0 MILE RADIUS RADIUS RADIUS DESCRIPTION HOUSING UNITS BY YEAR BUILT
BUILT 1979 TO MARCH 1980
BUILT 1975 TO 1978
BUILT 1970 TO 1974
BUILT 1960 TO 1969
BUILT 1950 TO 1959
BUILT 1940 TO 1949
BUILT 1939 OR EARLIER 8,807 54,886 95,102 1.27% 4.64% 3.48% 4.07% 8.87% 10.60% 7.22% 13.17% 16.27% 26.26% 26.90% 29.99% 26.47% 22.27% 18.54% 14.45% 12.04% 10.06% 20.27% 12.11% 11.06% 11.06% 1980 HOUSEHOLDS BY 1979 INCOMES \$75,000+ \$50,000 TO \$74,999 \$35,000 TO \$49,999 \$25,000 TO \$34,999 \$15,000 TO \$24,999 \$ 7,500 TO \$14,999 UNDER \$7,500 46,252 4.20% 7.98% 82,134 3.49% 7.05% 8,487 8.24% 13.26% 20.73% 16.77% 18.17% 14.04% 12.44% 16.10% 23.66% 14.04% 20.32% 21.32% 1979 AVERAGE HOUSEHOLD INCOME 1979 MEDIAN HOUSEHOLD INCOME \$37,434 \$27,874 \$25,876 \$31,540 \$23,232 \$21,587 1980 FAMILIES BY 1979 INCOMES \$75,000+ \$50,000 TO \$74,999 \$35,000 TO \$49,999 \$25,000 TO \$34,999 \$15,000 TO \$24,999 \$ 7,500 TO \$14,999 UNDER \$7,500 30,703 5.45% 10.55% 6,714 9.03\$ 50,077 4.82% 9.96% 15.05% 24.35% 18.98% 17.55% 18.07% 18.19% 17.55% 19.23% 22.37% 23.59% 15.76% 10.41% 14.69% 8.73% 9.18% 1979 AVERAGE FAMILY INCOME 1979 MEDIAN FAMILY INCOME \$40,651 \$34,933 \$32,970 \$28,218 \$31,290 \$26,873

02/06/91

# POP-FACTS: FULL DATA REPORT (CENSUS ' 80, UPDATES & PROJECTIONS) BY EQUIFAX MARKETING DECISION SYSTEMS 800-877-5560 PREPARED FOR GRUBB & ELLIS 139 STITE: 291

WAIALAE AND HUNAKAI HONOLULU, HI	co	ORD: 21:16.90	157:47.40
DESCRIPTION	1.0 MILE RADIUS	3.0 MILE RADIUS	5.0 MILE RADIUS
1990 POPULATION BY SEX MALE FEMALE	26,224 47.98% 52.02%	130,674 48.14% 51.86%	214,706 47.86% 52.14%
1990 POPULATION BY AGE UNDER 5 YEARS 5 TO 9 YEARS 10 TO 14 YEARS 15 TO 19 YEARS 20 TO 24 YEARS 25 TO 29 YEARS 30 TO 34 YEARS 35 TO 44 YEARS 45 TO 54 YEARS 55 TO 59 YEARS 60 TO 64 YEARS 65 TO 74 YEARS 75+ YEARS	26,224 4.223 4.223 3.253 3.314 7.528 8.338 7.928 15.078 10.463 7.608 12.078	130,674 4.14% 4.11% 4.02% 5.83% 9.22% 8.79% 14.58% 9.91% 5.62% 6.56% 10.57% 6.25%	214,706 4.05% 4.01% 4.12% 5.43% 10.00% 9.45% 8.99% 14.69% 10.43% 5.72% 6.45% 10.26%
1990 AVERAGE AGE	42.33	40.40	40.57
1990 FEMALE POPULATION BY AGE UNDER 5 YEARS 5 TO 9 YEARS 10 TO 14 YEARS 15 TO 19 YEARS 20 TO 24 YEARS 25 TO 29 YEARS 30 TO 34 YEARS 35 TO 44 YEARS 45 TO 54 YEARS 55 TO 59 YEARS 60 TO 64 YEARS 65 TO 74 YEARS 75+ YEARS	13,641 3.81% 4.04% 3.59% 5.38% 7.59% 7.66% 15.96% 10.96% 8.02% 8.98%	67,768 3.75% 3.95% 3.95% 6.21% 10.95% 7.80% 7.80% 13.93% 9.81% 5.93% 6.98% 10.76% 7.48%	111,938 3.68% 3.85% 3.90% 5.75% 10.72% 9.04% 8.00% 13.94% 10.30% 5.91% 6.79% 10.40%
1990 FEMALE MEDIAN AGE 1990 FEMALE AVERAGE AGE	42.26 43.49	38.86 41.35	38.91 41.46

	Jun-90 to	ABSORPTION	•		ſ							,									107.0		٥					18621	ļ	, E	٤	•		Ţ			, 6	٥	30.40 (16,161)
	8.3				20,000	338	ļ	2 2	3	5	2,53	22,23	À S	5753	33	5	5	Ş	5						S	9	3,00	E &	\$2.02	~ 9	\$6.33	2 2	50.18	20.16	S	9	5023	505	20.46
	£ 3				8 66	33	×	\$ 5	3	S	25.82	<b>3</b> 23	8	2	5	9	ş 9	25.48	22.03	50.35	23.5	5	5	31.03	17 55	80.30	<b>8</b>	19.51	55.55	\$6.35	ecot	82.33 13.33	50.18	28.16 78.16	8	S S	20.08	2025	16.02
	89.08 75 75				28.65	20 65	26.12	29.55	40.36	2 2	\$2.85		20.25	22	8 \$	27.55	\$5.25	\$638		3,5	\$	5	5	5	20.02	\$ 30	\$0,28	80.50	\$0,30	\$0.43		8.3	\$0.12	50.18	20.03		36.18	39.78	22.27   \$0.15
	NET RENT	HOH.			\$2.85	\$3.75	8 0	22.23	42.70	2,52	\$2.00	21.50	\$2.00	\$2.93	42.20	8	95.63	52.47	21.00	** 63	Ş	2	2 2	22.23	\$2.80	\$2,65	\$1,25	\$1,75	\$1,75	52.75	51.50	\$1.70	\$2.00	\$1.16	32.60	\$1.65	\$2,63	\$2.00	122
	Dec-90 NET RENT	AVERAGE			\$2.73	52.13	22 20	21.12	8	\$2.50	31.55	\$1.25	\$1.75	12.61	\$2.20	\$300	\$2.25	\$1.79	21.00	42 m	12 m	5000	\$1.42	22.28	\$2.60	52,38	\$1.25	\$1,38	\$1.63	\$2.75	\$1.50	\$1.55	\$1.88	\$0.05	52.28	\$1.65	\$1.96	\$1.96	\$2.03
	Dec-90 NETRENT	200			\$2.60	\$3.00	\$2.20	23.00	\$1.10	\$2.25	\$1.00	\$1.00	\$1.50	\$2.28	\$2,20	\$3.00	\$2.00	\$1.10	\$1.00	\$1.90	\$1.90	\$1.25	\$0.65	\$2.20	\$2.40	\$2.10	\$1.25	\$1.00	\$1,50	\$2.75	\$1.50	\$1.40	\$1.75	\$0,75	\$1.85	\$1,65	\$1.68	\$1.88	51.73
•	NET PENT	Ŧ			\$2.85	23,10	\$2,20	52.23	\$2.70	\$2.75	\$2.00	\$1.00	\$2.20	\$2.93	\$2.15	\$2.75	\$2.35	\$1.41	\$1.00	52.10	\$3.41	\$3.8	\$2.18	\$2,20	52.60	\$2.65	\$1.25	\$1.55	\$1.75	32.75	8	\$1.7g	25.8	\$1.25	\$2.50	51.65	\$1.85	\$2.10	\$2.20
	Ann-90 NETPENT SUSFOLO	WERKE			\$2.73	\$3.10	\$2.20	52.13	51.90	\$2.50	31.55	\$1.00	\$1.94	\$2.51	\$2.15	\$2.63	\$2.10	\$3.41	\$1.00	\$2.00	1775	52.13	\$1.24	\$2.20	\$2.80	\$2,38	22.23	21.55	3	32.75	3			8	\$2.25	\$1.65	\$1.05	21.30	\$2.03
<b>28</b>	Jun-90 NET RENT SUSFIND	Ę			\$2.60	\$3.10	\$2.20	\$3.00	\$1.10	\$7,25	\$1.09	\$1.00	\$1.68	\$2.28	\$2.15	\$2.50	\$1.85	\$1.41	\$1.00	21,90	17'05	\$1.25	50.50	22.20	\$2.60	\$2.10	\$1.25	\$1.55		23,3	82 55	\$1.70		\$0.75	\$2.00	\$1,65	31.85	31.70	\$1.86
RETAL SURVEY DECEMBER 1990	Osc-89 NET REVIT	HOH			\$2.75		\$1.25	\$2.00	\$2.50	\$2.75			\$2.10	\$2.93		\$3,00	\$2.30	\$2.2\$				\$3.00	\$2.18			\$2.65							\$1.50	\$1.60	\$2.50				12,29
AL SURVEY	Dec-89 NET RENT	AVERAGE				\$3.00					\$2.00				\$2.10					\$1.90	\$3.25			\$2.20	\$2.75		\$1.25	\$1.50	3	\$2.35		\$1.70					\$1.80	22 88	\$2.09
æ	Dec.89 HET FENT	3 €			\$2.50		\$0.65	\$1,65	\$1.10	\$2,25			\$1.60	\$2.28		\$2,25	\$1.60	\$1.75				\$1.25	\$0.50			\$2,10							\$1.60	\$0.75	\$2,00				\$1,60
•	Osec-90				0.00%	0.00×	0.00%	0.00%	10.30%	20.74%	0.00%	0.00%	7.41%	14.71%	17.11%	0.00%	1.54%	7.10%	0.00%	3.32%	3.43%	20.00%	7.59%	0.00%	1.20%	0.00%	0.00%	2,73%	×SS-0	4.14.4	843%	9004	2000	2000	0.00%	0.00%	, 0.00%	*000	3.66%
	Dac-90 SDFT VACANT				0	٥	0	0	1,700	5,000	٥	0	1,333	10,770	2,600	0	2,000	1,359	0	830	1,200	5,000	1,373	0	1,200	0		1,155	٥	2,000	80/-	٥	ا	٥	ا	٥	٥	۰	39,219
	Jun-90 SOFT VACANT				0	0	0	0	0	2,000	0	ø	0	752	2,100	2,285	0	0	0	500	1,200	5,000	0	0	008,1	0	•	427		3,800	2,000		•		٥	0	1,194	0	23,058
	205T				0	0	0	0	0	0	0		O	752	3,091	2,285	0	0		800	1,200	2,475	1,300	0	2,400	0		1,532	1,600	200		ا	-	٥	٩		6,000	5,251	32,486
	98c-88				852		200	°	0	0	0		1,333	0	14,037	0	000'05	0		1,000	0		٥	10,700	٥	0	1,000	650	4,600	°		0	0	°	3,717		5.439		93,628
٠	Ser Ser Ser				7,454	14,052	8,174	7,903	16,500	24,700	15,905	13,000	18,000	72,226	15,200	17,000	130,000	19,136	2,200	25,000	35,000	35,000	180'81	37,565	157,99	17,459	80,000	42,316	25,524	48,259	20,164	21,021	20,000	12,000	60,707	5,482	41,650	35,796	1,085,255
•			OWN	STRIP CENTERS	ATKINSONCENTER	ALA MONNA PLAZA	WALEWA TOWN	KANALA COMMERCIAL	KARUA BEACH CENTER	MALLIA COMMERCIAL CENTER	KALUA SOLARE	KATUA TRADECENTER	KAPALAMA SHOPPING PLAZA	1500 KAPKOLAKI BLVD	KARUA MARKETPLACE	KAPKCANI MALL	XAPCE E1	KTO-WKA SOLUME	MAKAKKO	MERCHANTSROW	MODIFIE	MOTOWNCENTER	NORTH SHORE VILLAGE	MALLAND	PEARL KAIPHASE I	POWER STATION	STADRICE	KWHIND SUCHBILL	HOLINASCON	UNIVERSITY SUDANE	WALMED SHOPING VILLAGE	WAIAKAURO	WAIKALU	WESIGNIECENTER	WEST KICKE	WINDWARD TRADE CENTER	WHOWAND TOWN & COCKITRY	WINDWARD IAC PACSE II	STRIP CENTERS
							•	个																															

	SZE W GA GA Obec 90	Oec-88 SOT VACUNT	Oac-89 SOFT VACANT	Jun-90 SQFT VACANT	09e.50	Dec-90	NET HENT SYSTANO	HEIAL SHRYEY INCEMBER 1970  DE DRE-89 Dec-89 Jun  VI NETRENT NETRENT NETL  O SYSTAN SYSTAN  AVERAGE MICH L	Dec-89 NET PENT   P. SUSFINO   1	HENT TANO	Jun-90 NET PENT 2 \$YSFINO 3	Jee-60   NET FF   SYSFA	Dec 90 NETRBIT SYSTING	Dec-60 NET REAT \$4557AO	Deeso NETRENT SSTMO	- 81-35 - 11-35	0 ge.u	Oses Sur Jun Com	Jun-90 to Dec-90 ABSORPTION
SPECIALITY CENTERS	. [	•				•						<u>-</u>	<b>5</b>		- §			<del></del>	
DECOVERYBAY	38,000	19,667	3,000	6,000	5,236	14.54%	1 00.53		55.00	\$2.00	\$3.50	W \$3				ł			
ENICHEDING	52,150	3,850	•	009'C	1,402	2.69%	\$1.75		\$3.00	H	\$2.38	200	3 2 2	B	BE	╅	81.8	Н	ž
TO THE TOTAL OF THE TANK ATT		0	0	8	0	2000	\$8,00		\$14.00	\$8.00		\$16.00	3 2	8	2 2 2		┪	4	2,398
SONE DITTO THE CONTROL OF THE CONTRO	_	-		٥	0	2000				۲	H	\$12.00	200	1	1	†	╅	2963	
KINGS OF ACE				9 000	6,003	9.02%					H			1		$\dagger$	7	20.25	
KUKIOKMI	4	2,500	200	2000	122	0.31%	8,5		2	8000	803	\$5.00	23.00	84.00	858	8,18	1		
RESTAURANTROW	505.00		000 01	008.01	200	7	\$2.23	†	22.23	\$1.25	22.63	\$4.00	\$1.25	\$2,63	24.00	╂╌	╁	╀	
POYAL HAWAHAN	280,000	╁		0	0	2.00	25.55	†	2 5 2 2	5 52 52	┰	53.95	\$2.45	02 छ	5525	┢	20 2	╀	3
WAIKKINAAKETPLACE	32,160	┞	350	350	350		3 2	-	200	†	5000	\$18.00	\$2.25	\$8.63	\$15.00	H	╀	╀	2
WANTEL SHOPPING PLAZA	140,000	•	0	0	0	X000	3 2		210 00	†	╁	212.00	\$5.00	\$8.50	\$12,00	Н	\$1.25	1	
WAKKI TRADE CENTER	43.656	1,375	8,700	0		800		-	2/ 20	****		312.00	8.18	8.8	\$15.00	Н	┞	205	,,
WASD CENTER	100.000	┝	0	0	0	2000	150	+	8 3			34.75	\$1.75	52,75	57.23		╊		],
WARD WAREHOUSE	130,000	Н	٥	0	395	9000	822	-	8	\$2.60			\$2.55	E E	<b>24.</b> 10	8, 83 8, 83	27.2		
				1									32,60	\$333	<b>1</b> 4.03	H	H	100	
SPECIALITICENTERS	1,322,514	4   74,486	50,192	38,992	29,505	2.23%	\$7.69		\$6.20	53.30	13.53	\$7.78	7753	28.80	200	1		1	
									•					1000	1	2 2	200	Ha	Ì
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DILINGHUM PLUZA.	186,800	0	0	16,000	5,000	268%		\$200	-	\$1.75	+	25.25	22.60	3250	32.50	Н	╀	2025	Ţ,
KOKO WARM	280,234	5,850		1 800	5,324	7003		\$2.25	-	\$7.24	1 360		8	27:57	\$2.25	Н	20.05	╀	2
PEARL CITY	259,778	Н	щ	0	o	0.00%	\$1.75	┝	\$2.25	\$1.75	38	7,775	72.25	5225	52.25	\$0.64	H	20.02	
WAINAE MALL	179,000	39	4	7,900	17,500	9.78%		H		\$180	1 2 2		3:52	32,13	S (2)	1	50.08	-	
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Jun-90 NET REHT \$45F/HO HIGH	58.35 \$5.00 \$6.68	\$2.30 \$2.00 \$2.05 \$2.05	\$2.10 \$2.20 \$7.76 \$5.75 \$6.88	\$1.45 \$1.45 \$1.50 \$1.60 \$1.75 \$1.75 \$1.75 \$1.75 \$1.75 \$1.75
Jun-90 NET RENT SYST-MO AVERAGE	\$5.83 \$3.25 \$4.56	52,10 55,00 52,10 52,10	11.93 11.93 11.93 11.33 11.33 11.33	22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55
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DECEMBER Dec-69 NETRENT \$1SF/NO HIGH	\$5.00 \$5.00 \$8.69	\$2.25 \$6.00 \$5.13	12.73 12.73 12.73 12.73 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63 13.63	25.12.12.12.12.12.12.12.12.12.12.12.12.12.
RETAR SURVEY DECEMBER 1990  9 Dec-69 Dec-69 Jun  17 NETRENT NETRENT NET!  0 \$45F/MO \$45F/MO \$45F  AVERAGE HIGH UGH			12.04 17.17 12.10	\$1.70
RET Orc-89 NET REAT SUSFAND LOW	\$1.50 \$1.50	\$1.85 \$2.50 \$2.18	11.45 11.45 11.45 11.45 11.45	11.75 11.75 11.75 11.75 11.75 11.53
Dac-90	0.46%	10.81% 8.82% 1.18%	23.8% 2.23% 2.23% 2.23% 2.23%	0.00% 5.17% 5.00% 5.60% 6.43% 6.43% 6.43% 6.43% 7.59% 7.59%
Dec-90 SOFT VACANT	7,600	5,000 2,000 2,000 8,000	93,656 29,219 29,503 67,074 6,000 7,800	2,000 2,000 2,000 2,000 3,400 2,600 2,600 1,300
Jun-90 SOFT VACANT	000	12,000	75,255 23,058 28,292 38,292 7,000 0 0	
Dec-89 SOFT VACANT	16,000	5,000 26,000	89.604 32.466 35.000 10.000 10.000	2,500 2,000 6,00 15,000 0 0
Oec-58 SOFT VACANT	4,800 4,800	20,512	79,816 95,828 74,496 56,180 10,878 4,800	0 2,006 2,600 950 0 950 0 11,325
SIZE IN GA	1,652,000 1,767,000 2,518,000	46,262 34,000 172,000	2,778,302 79,916 89,604 75,255 1,052,255 93,828 32,466 23,058 1,322,514 74,456 50,192 36,992 1,711,541 56,190 35,000 7,000 966,000 30,875 35,000 7,000 2,819,000 4,800 10,000 0	62,000 0 0 0 0 111,000 9,006 3,359 2,220 38,706 2,600 2,000 2,000 140,800 7,000 2,000 2,500 77,000 950 2,000 2,000 52,400 13,325 15,000 17,000 68,485 0 0 0 54,000 0 1,300 54,000 1,305 54,000 1,300
<u> </u>	SUPER RECIONAL CENTERS ALA MOANA PEARLADGE SUPER RECIONAL CENTERS	OLAND  NEW CENTERS WALHAWA PHASE II (NEGA) PEARL NAI PHASE II (SIP) KAPOLEI SHOPPHGGENTER  NEW CENTERS	OAMU CENTERS NEGLHERS STRIP CENTERS SPECIAL TY CENTERS COLMANITY CENTERS REGIONAL CENTERS SUPER REGIONAL CENTERS SUPER REGIONAL CENTERS	HAUI HEKHBORHOOD CENTERS AZEKA PLACE KAHALUI IQHEI TOWN CENTER KUNALUI MALL LUMANA SOUME LUMANA SOUME LUMANA SOUME LUMANA SOUME LUMANA SOUME MAUI PLAZA FUMANER MAUI PLAZA FUMANER MAUI PLAZA MAUI PLAZA MAUI CHEMACENTER

Page 4

8 OFFICE SURVEY DECE!

| Dec-89 Jun-90 Dec-90 Dec-83 Jun-90 Dec-89 Jun-90 Dec-89 Jun-90 Dec-89 Jun-90 to SO-T SO-T SO-T % GROSS GROSS GROSS CAM CAM Dec-90 VACANT VACANT VACANT VACANT FENT FENT FENT AND FENT ABSORPTION | 1,447,618 | 75,917 | 63,203 | 31,501 | 2,18% | \$2,23 | \$2,32 | \$2,59 | \$0,56 | \$0,59 | \$0,50 | \$1,502

127 KAPPOLANI TOTALS

 
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HAWAII KAI MEDICAL OFFICE BURDING
SCS-HMA BULDING
KAHALA OFFICE BULDING
KAHALA OFFICE TOWER
KCKO HEAD PLAZA 

176,370 | 795 | 5,188 | 2,719 | 1,52% | \$2.09 | \$2.41 | \$2.39 | \$0.57 | \$0.65 | \$0.67 | 2,469

139 EAST OAHU TOTALS

 
 B66
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AMERICAN SAVINGS BLILDING
CASTLE PROFESSIONAL CENTER*
HONOLULU FEDERAL SAL
KALLUA MEDICAL ARTS BUILDING
KALLUA PROFESSIONAL CENTER II
KALLUA PROFESSIONAL CENTER II
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282,229 | 27,389 | 19,876 | 28,309 | 10.03% | \$1.69 | \$1.90 | \$2,11 | \$0.43 | \$0.45 | \$0,49 | (8,433) 145 WINDWARD TOTALS

 
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(FEARL CITY BUSINESS PLAZA

(FEARL CITY PLAZA ***

(FEARL FOCE OFFICE CENTER

(WAPHAWA COURTHOUSE BULDNG

(WAPHAWA COURTHOUSE BULDNG

(WAPHAWA COURTHOUSE BULDNG) 

218,402 | 6,359 | 3,640 | 3,747 | 1,72% | 81.81 | 82.23 | \$2.31 | \$0.46 | \$0,46 | \$0.49 | {107}

198 LEEWARD TOTALS

P894



February 20, 1991

Mr. Leonard McMullin Waialae Kahala Partners 1123 11th Ave., Suite 102 Honolulu, Hawaii 96816

Re: Comparison of Tax Liabilty on Portion of Parcel 29. Depending on Use

Dear Mr. McMullin,

Under the existing zoning and conditions the subject property is responsible for it's share of real property taxes in the amount of \$3,878.47 annually.

Assuming the property were developed under existing zoning, which would allow for the construction of 6 townhomes valued at approximately \$500,000. each for a total value of \$3,000,000., the subject property would produce an approximate \$14,850. in tax dollars annually.

If however the property were to be rezoned to B-2, to accommodate the proposed Nohoha Kahala Commercial Building with a construction cost of \$14,000,000., this building would create a new tax liability of \$132,300. annually.

All of the above figures are based of the 1990 / 1991 tax rates which are subject to change or increase on an annual basis.

Sincerely,

Duttie Dottie Walters

Principal Broker
Real Estate Division

Hale Kulana Corporation

#### **IMPACTS ON PUBLIC SERVICES:**

#### A. Access and transportation:

 Access is existing directly onto Waialae Avenue via the driveway once used by the Drive-In Theater. The existing entry and access is adequate and can be made very attractive with the landscaping space it provides.

2. Transportation is the single highest concern for impact that we or the community have. A detailed traffic impact assessment is included as "Exhibit E". This intersection operates at poor levels of service at a.m. and p.m. traffic flows. An office building on this site would be an additional burden on this intersection if no mitigating measures were offered or taken.

#### B. Water:

No moratorium on water service connections exists or is expected for this area. Service to the site could be provided through either the 16" or 24" water mains located on either side of Waialae Avenue.

Please refer to page 14a following, the water service map for Waialae Kahala.

#### C. Wastewater:

Anticipated waste-water impact is 5,400 gallons per day flow based on uniform plumbing code requirements. Preliminary discussion with Waste Water division yielded no problems with the current capacity levels.

Please refer to Exhibit "F" for waste-water impact calculations.

#### D. Drainage:

Due to the small area of this site, impact from drainage did not warrant much concern from the consulting engineers. Proper drainage system design will channelize drainage waters properly. No water drains onto this parcel from adjoining properties thereby relieving this project of concern for more storm water run-off than is generated on this 39,000 square feet alone.

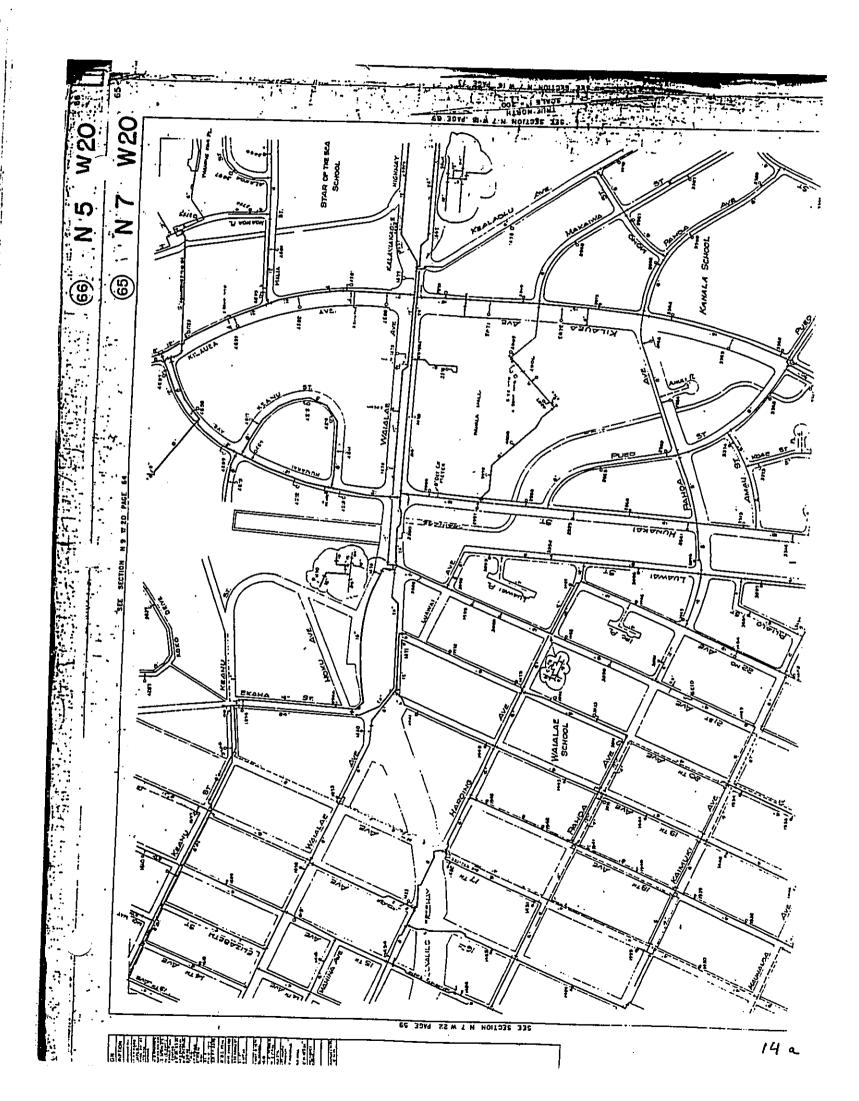
Please refer to exhibit "H".

#### E. Solid Waste:

Private service waste removal firms will be employeed for rubish removal. Due to the nature of the tenants of this building, paper product waste is the largest single item of waste disposal.

#### F. Schools:

No questions were directed to the school board etc... as no impact from this development is expected on the local schools.



## IMPACTS ON PUBLIC SERVICES (continued):

#### G. Parks:

The parks department has no concern with this site re-zoning as a commercial site.

#### H. Fire:

Prior to building plan check, existing equipment was determined to be sufficient for serving this new building.

#### I. Utilities:

Electric, gas, telephone, and cable television are available for use on this site if rezoned to commercial.

# Agencies Consulted:

- 1. DLU
- Waste Water Management
   The Fire Department
   The Board of Water Supply

- 5. Parks Department
- 6. General Planning
  7. Department of Traffic Safety
- 8. STATE D.O.T.

#### IMPACTS ON THE ENVIRONMENT:

#### A. Noise:

This building is designed with under-ground parking for noise control in relation to the newly constructed residences mauka of this site. It is intended that this building screen noise from Waialae Avenue for these same residences being constructed.

#### B. Air Quality:

As an office building, no cooking establishments or manufacturing facilities etc... would be present on site to generate emissions capable of affecting air quality.

#### C. Compatibility with surrounding environment:

- 1. The height is limited to five-stories in spite of the higher building envelope afforded a building on this site when re-zoned B-2. This owner imposed limit is intended to preserve good ocean views for higher mauka residences while being tall enough to serve the site properly as a professional building, and simultaneously act as a mitigating feature in favor of the new residences being constructed directly adjacent to the new site.
- Design of the building serves four purposes: 1. to repeat landscaping themes of the Nohona Kahala Subdivision, 2. To repeat the terracing scheme of the project.
   To allow adequate sunlight to the residences, and 4. To screen offensive noise and views for new residents at Nohona Kahala.
- 3. Materials are intended to be concrete construction utilizing marble and granite in the design.
- 4. Siting of the structure is intended to occupy space less suitable for residential use, in the lowest portion of the project, as a screening element to the freeway, and sufficiently long enough to span the under-pass area only.

### D. Historic and Archaeological impacts:

No impacts on these areas will occur. A thourough site history of ownership and use was compiled prior to purchase of this site. No items of historic or archaeological significance became apparent in this research.

The State Department of Land and Natural Resources, Parks and Recreation Division, Historic Sites section was consulted in this issue.

Historic reference indicates that this parcel was a land-fill. Soils borings during soils investigations substantiates this conclusion.

Please Refer to Exhibit "G", for histories of ownership and agencies consulted.

#### Alternatives Considered:

Developing this parcel as R-5.

When the entire Nohona Kahala site was considered for purchase in the summer of 1988, the disadvantages to developing this site for residential use were many. A great deal of design effort and thought were expended on mitigating some of the undesireable site conditions. As an example, it was determined that this was a hot environment that did not receive a great-deal of relief from the trade winds. Consequently the homes were insulated and air-conditioned. The cemetery was buffered with a road, landscaping strip, trees, and a 6 ft. fence. Additional landscaping effort was made to over-come the hot dusty dry appearance of this unused land.

The single largest obstacle to a quality development was the proximity of the free-way. For this reason, a commercial building of adequate size and design to off-set this problem was planned. We have clearly stated from the beginning our master-plan including a commercial building in the lowest portion of the site.

Developing this parcel as R-5 would not serve the new residences. It would not provide good housing for the occupants of those homes if they were to be constructed.

#### MITIGATION MEASURES PROPOSED:

The single impact of significance on this re-zoning request is the impact the re-zoning and the subsequent 100,000 sq. ft. commercial building would have on traffic congestion on Waialae Avenue and the transit time for East Oahu residents.

It is the intent of this development to provide sufficient off-site improvements to the Waialae Avenue / 21st Avenue intersection to nullify any negative impact this commercial building would have.

After the traffic analysis was done and mitigating measures suggested, It was determined that this was possible. In addition to preventing a significant negative impact to traffic flow in this intersection during peak commercial building operational hours, the improvements to this intersection provide a positive benefit to local traffic at times when the commercial building traffic is not an influence.

The traffic impact assessment and mitigating proposal is Exhibited with this application as Exhibit "E".

#### SUMMARY OF INFORMATION NOHONA KAHALA COMMERCIAL SITE APPLICATION FOR AMENDMENT TO DEVELOPMENT PLAN:

TMK: 3-3-12: a portion of 29

AREA: 39,223 sq. ft.

AMENDMENT REQUEST: To re-zone this parcel from R-5 & P-2 to Commercial B-2.

LOCATION: The site of the Old Waialae Drive-In, Waialae Kahala, directly opposite 21st Avenues

intersection with Waialae Avenue.

OWNER / DEVELOPER: Waialae Kahala Partners

REQUESTED BY: Hale Kulana Corporation as aGeneral Partner of Waialae Kahala Partners

Hale Kulana Corporation 1123 11th Avenue Suite 102 Honolulu, Hawaii 96816

BASIS FOR REQUEST: Re-zoning this parcel commercial is consistent with the neighborhoring commercial use. Re-zoning will allow the construction of a necessary element of the master-plan for the Nohona Kahala total Site. Re-zoning this parcel will provide for a more suitable use of this land than provided for in the existing zoning.

TYPE OF PROJECT: A five-story commercial office building with two levels of under-ground parking.

IMPACT ON PROVISION OF HOUSING: This project will not provide additional housing.

EXISTING CONDITIONS:

Current land use: Residential

Structures: None

Soil features: Clay and boulder rubble fill

Possible Constraints: Height limit of 5-stories with no other indicated constraints.

PRESENT PLAN / ZONING DESIGNATIONS:

State Land Use: Urban

DP Public Facilities Map: No impediments indicated

DP Special provisions: No special provisions noted

Zoning: R-5

NOTIFICATION
REQUIREMENTS

The second of th

#### **OWNERS OF ABUTTING LOTS**

Mr. Carl Smigielski 1175 Koloa St. Honolulu, Hawaii 96816

Mr. Kenneth Sugita 745 Fort St. 8th Foor Honolulu, Hawaii 96813

Mr. Charles Bocken 4627 Aukai Ave. Honolulu, Hawaii 96816

Senator Hiram Fong 1102 Alewa Dr. Honolulu, Hawaii 96817

Mr. Howard Bilkiss 4855 Kolohala St. Honolulu, Hawaii 96816

Mr. Ron Kobayashi 1314 Akele St. Kailua, Hawaii 96834

Ms. Catherine Chung 1455 Ehupua St. Honolulu, Hawaii 9681

Mr. John McClellan 1227 Kona St. Honolulu, Hawaii 96814

Mr. Scott Rolles 218 Kaiulani Ave. Honolulu Hawaii 96815

Oceanview Cemetary Ltd. Mr. Marvin Fong, Manager 2919 Kapiolani Blvd.

# NEIGHBORHOOD BOARDS

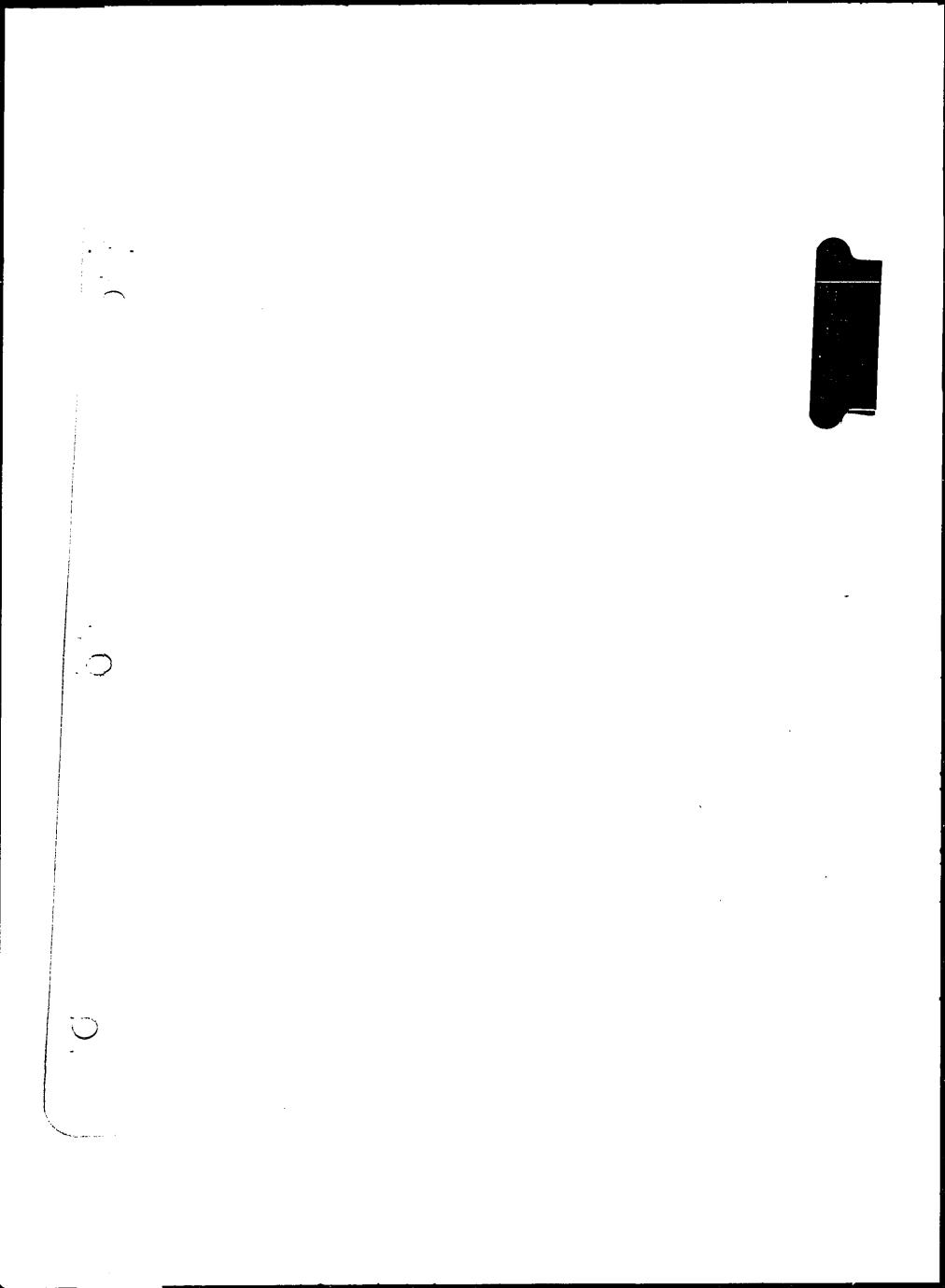
Waialae Kahala Neighborhood Board Richard Turbin, Chairman P.O.Box 10435 Honolulu, Hawaii 96816

Kaimuki Neighborhood Board Henry Iwasa, Chairman Kaimuki Library 1041 Koko Head Ave. Honolulu, Hawaii 96816 Ordinance 84-111 states: No application for Development Plan Land Use Map ammendment shall be accepted for process unless the applicant notifies, by mail, all owners, lessees, sub-lessees and residents of the affected property and of each abutting parcel.

I hereby certify that I have complied with the notification requirements of Ordinance 84-111.

Leonard McMullin President

Hale Kulana Corporation



#### LOT 59

BEING A PORTION OF NOHONA KAHALA,

SITUATED AT WAIALAE-IKI, KAPAHULU, HONOLULU, OAHU, HAWAII

FILE PLAN (PENDING)

EAME BEING A PORTION OF LAND PATENT 8188, LAND COMMISSION AWARD 10613, APANA 3 TO A. PAKI

Beginning at the Southeast corner of this parcel of land, on the Northerly mide of Waialas Avenue, being also the Southwest corner of Ocean View Cametery Lot, File Plan 283, the coordinates of maid point of beginning referred to Government Survey Triangulation Station "Leahi", being 6,998.04 feet North and 7,827.81 feet East, and running by azimuths measured clockwise from true South:

1.	104* 27'	187.32 feat along the Northerly side of
		Waialae Avenue;

- 2. 115° 36' 30" 66.00 feet along same;
- 3. 191° 00° 131.76 feet along Lots 9, 8 and 7 of Nohona Kahala, File Plan (pending), being also remainder of Land Patent 8188, Land Commission Award 10613, Apana 3 to A. Paki;
- 4. 207° 00° 13.65 feet along Lot 7 of Nobona Kahala, File Flan (pending), being also remainder of Land Patent 8188, Land Commission Award 10613, Apana 3 to A. Paki;
- 5. 284° 00° 245.00 feet along Lots 5, 4, 3, 2, 1 and 56 of Nohona Kahala, Pile Plan (pending), being also ramainder of Land Patent 8188, Land Commission Award 10613, Apana 3 to A. Paki;
- 6. 10° 08' 160.00 feet along Ocean View Cemetery
  Lot, File Plan 283, to the point
  of beginning and containing an
  area of 39,223 square feet.

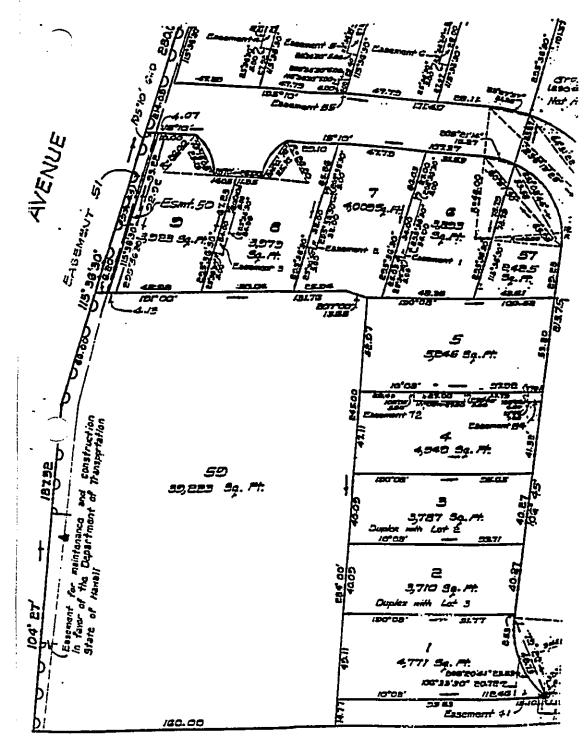
- 1 -

R.M. TOWILL CORPORATION

CIVIL ENGINEERS • SURVEYORS
420 WAINFAMILD ROAD, 8411 • HONOLULU, HAWAII 94817-4941

EXHIBIT B

 $\overline{\phantom{a}}$ 



C S. YOSAHA

R.M. TOWILL CORPORATION

Registered Professional Surveyor Certificate Number = ==

"Exhibit B"

nohona kahala commercial site application for development plan amendment

480 Waiakamilo Road Honolulu, Hawaii

1,

The above described Lot 59 is subject, however, to an Easement for maintenance and construction in favor of the Department of Transportation, State of Hawaii.

R.M. TOWILL CORPORATION Description Prepared by:

420 Waiakamilo Rd., #411 Honolulu, Hawaii 96817-4941 January 30, 1991

George S Youhimura
Registered Professional Surveyor
Certificate Number 2927

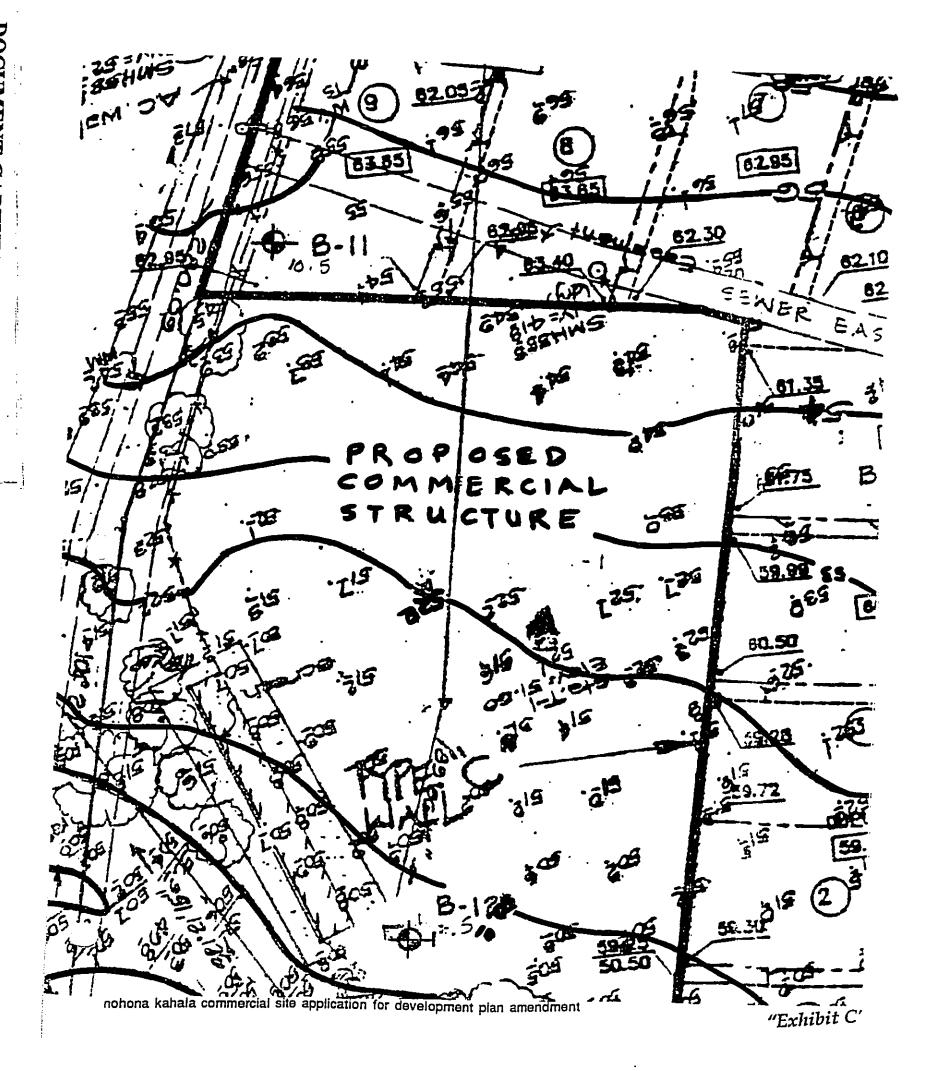
R.M. TOWILL CORPORATION

CIVIL ENGINEERS • SURVEYORS
420 WALAKAMILO ROAD, \$411 • HONOLULU, HAWAII 96817-4841

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NOHANA KAHALA

Also Known As:

PROPOSED CLUSTER-TYPE RESIDENTIAL DEVELOPMENT (FORMER WAIALAE DRIVE-IN THEATER SITE)
PRELIMINARY SOIL REPORT

WAIALAE AVENUE, HONOLULU, HAWAII TAX MAP KEY: 3-3-12: 1, 22, 24, 28, 29 & 50

To: HALE KULANA CORPORATION

HAWAII GEOTECHNICAL GROUP, INC. dba WALTER LUM ASSOCIATES, INC. SOILS & FOUNDATION ENGINEERS

October 2, 1989

### HAWAII GEOTECHNICAL GROUP, INC. dba WALTER LUM ASSOCIATES, INC.

SOILS & FOUNDATION ENGINEERS

**EDWARD WATANARE** EZRA KOIKE WALLACE WAKAHIRO WALTER LUM-CONSULTANT 98-722 KUAHAO PLACE, PEARL CITY, HAWAII 98782 • (808) 487-5590

October 2, 1989

HALE KULANA CORPORATION 1123 11th Avenue, Suite 102 Honolulu, Hawaii 96816

ATTENTION: Mr. Leonard McMullin

Gentlemen:

Subject: Proposed Cluster-Type Residential Development (Former Waialae Drive-In Theater Site)
Preliminary Soil Report

(for site grading and pavement thickness design considerations)

Waialae Avenue, Honolulu, Hawaii Tax Map Key: 3-3-21: 1, 22, 24, 28, 29 & 50

Transmitted herewith is a preliminary soil report for site grading and pavement thickness design considerations for the Proposed Cluster-Type Residential Development at the Former Waialae Drive-In Theater site at Waialae Avenue, Honolulu, Hawaii.

This report includes a Boring Location Sketch, boring logs, laboratory test results, general site grading and pavement thickness design guidelines and limitations.

Respectfully submitted,

Hawaii Geotechnical Group, Inc. dba WALTER LUM ASSOCIATES, INC.

CR/EK:gw

			ECHNICAL GROUP, INC. dba  UM ASSOCIATES, INC.   98-72	2 KUAH	HAO PLA	CE - PI	EARL CIT	TY, HAWA	NI 9671	32 • PHC	ONE 487	-5590		
		PRO	No.     POSED CLUSTER-TYPE RESIDENTIAL D WAIALAE DRIVE-IN THEATER SIT	DEV	EL.		2	ec. 2 Lugei 'CME	24			<b>-</b>	- <del></del>	
Depth(Ft.)	O Graphic Symbol	Unified Soil Classification	DESCRIPTION	Sample No.	SPT NBlowsPerFt	Probe Blows Per Ft.	Water Cont.	Plastic Limit	Liquid Limit	Wet Density P.C.F.	Dry Density P.C.F.	% Minus No. 200	Unconf. Comp P.S.F.	Vane Shear P.S F.
		(SC)	DENSE, BROWN, CLAYEY SAND & GRAVEL (FILL)	1	37	-	31	-	-	-	-	-	_	-
		(sm)	PENSE, RED BROWN, SILTY SAND	Бв	40/3	-	19	-	-	-	-	-	-	<b>-</b>
5_			HARD, GRAY, SO VESIGULAR BASALT, SO WIDELY FRACTURED, EXSLIGHTLY WEATHERED		1N*1	• R	ecov.							
10		_	MODERATELY HARD,  HIGHLY VESICULAR BASALT  COUNKER)	રા	7 N *2 •	₽ R	PCOV.							
15			HARD, GRAY, VESICULAR BASALT, CLOSELY TO VIDELY FRACTURED, VSLIGHTLY WEATHERED	RU	N *3 •	R	REP GOV.							
20	333		MODERATELY HARD, RED BROWN, HIGHLY WEATHERED BASALT (CLINKER)	RU	N*4	RI	RED COV. Q.D.					;		
25			HARD, GRAY, VESICULAR BASALT, GLOSELY TO MEDIUM FRACTURED, SLIGHTLY WEATHERED	RU	N*5 <	R	RED COV. Q.D.	5.0						
30			£ 29.5-30 CAVITY ?	<del>                                     </del>	N *G •	RE	RED 604. 2.d.	: 2.3						
	//		END OF BORING 3 33'	/ c		-	34	-		SYMBO Start Th	olit Spo in Wall	Tube	z" "NQ	-

HAWAII GEOTECHNICAL GROUP, INC. dba 98-722 KUAHAO PLACE • PEARL CITY, HAWAII 96782 • PHONE 487-5590 WALTER LUM ASSOCIATES, INC. Date: DEC. 20,1988 Boring Log No. 12
PROPOSED CLUSTER-TYPE RESIDENTIAL DEVEL.
Project (OLD WAIALAE DRIVE-IN THEATER SITE) AUGER & CORING Boring: (CME 55) Unconf. Comp P.S.F. SPT NBlowsPerFI Wet Density P.C.F. Dry Density P.C.F. Unified Soil Classification Water Cont. % Plastic Limit Liquid Limit Probe Blows Per f % Minus No. 200 Depth(Ft.)
O
Graphic
Symbol DESCRIPTION Sample ! MEDIUM, MOTTLED BROWN 53 12 JH CLAY WIGRAVEL 4
DECOMPOSED ROCK (FILL) II B 9: 104 81 36 / c 19 36 STIFF, BROWN CLAY WARAYEL CH & DECOMPOSED SOUK (FILL) 3000 10 29903000 27 117 85 ס || 38 77 HARD GRAY MODERATELY
BY VESICULAR SASALT
CLOSELY FRACTURED
SLIGHTLY WEATHERED E 50/4 B CORED KUN#1 RECOV. : 3.0 R.Q.D. :14% CORED : 3.0 line RUN#2 RECOV. : 3.0 41:11 BROWN, TUFF R.Q.D. 1:0% 11111 unn 1005 CORED : 5.0, RECOV. : 2.5 11111 RUN 3 իրույց R.Q.O. 1:0% 11111 17 101 HARD, GRAY, MODERATELY VEGICULAR BASALT, GLOSELY TO MEDIUM FRACTURED, ELIGHTLY WEATHERED. MY MINERAL 11.1.1 CORED RECOV. 2.0 RUN#4 RECOV. : 2.3' R.Q.D. : 857. 30 DEPOSITS IN FRACTURES END OF BORING @ 30' 12-21-88 SYMBOLS: ☑ Split Spoon 3" Thin Wall Tube <u>Na"</u> Core No/Recovery

# PROPOSED CLUSTER-TYPE RESIDENTIAL DEVELOPMENT (OLD WAIALAE DRIVE-IN THEATER SITE)

# TABLE I_C - SUMMARY OF LABORATORY TEST RESULTS

BORING NO. SAMPLE NO. DEPTH BELOW SURFACE  DESCRIPTION  GRAIN-SIZE ANALYSIS	SURFACE  MOTT. BRN., CLAYET SAND W/CORLL FRAGMENTS (FILL)	9 C 9.0'-6.5' DARK RED EROWN CLAY (FILL)	SURFACE  SURFACE  EROUN, CLAYEY SAND C GRAVEL  (FILL)	
(% Passing) Sieve 1-1/2" 1" 1/2" 44 4/10 4/20 4/100 4/200	84 84 78 74 66 60 55 43		93 91 89 77 69 62 58 52 49	
ATTERBERG LIMITS  Air Dried or Natural Liquid Limit Plastic Limit Plasticity Index Natural Water Content,%  Dilatancy Toughness	NATURAL	NATURAL66273928NONE VERY_STIFF	NATURAL 68 28 40 27 SLOW-NONE VERY STIFF	
Dry Strength  UNIFIED SOIL CLASSIFICATION  APPARENT SPECIFIC GRAVITY	HIGH SC	HIGH	MEDIUM HIGH SC	
CBR TEST  (Surcharge - 51 P.S.F.)  Molding Moisture, %  Molding Dry Density, P.C.F.  Swell upon saturation, %  CBR at O.1" Penetration	24.0 91.4 1.2 5.4		19.0 106.0 .8 9.7	
MOISTURE-DENSITY RELATIONS OF SOILS (ASTM D-1557-70, Method ) Dry to Wet or Wet to Dry Max. Dry Density (P.C.F.) Optimum Moisture (%)				

REMARKS:

WALTER LUM ASSOCIATES, INC.

STRUCTURAL & SOIL ENGINEERS

Date 3-1-89 By C.R.

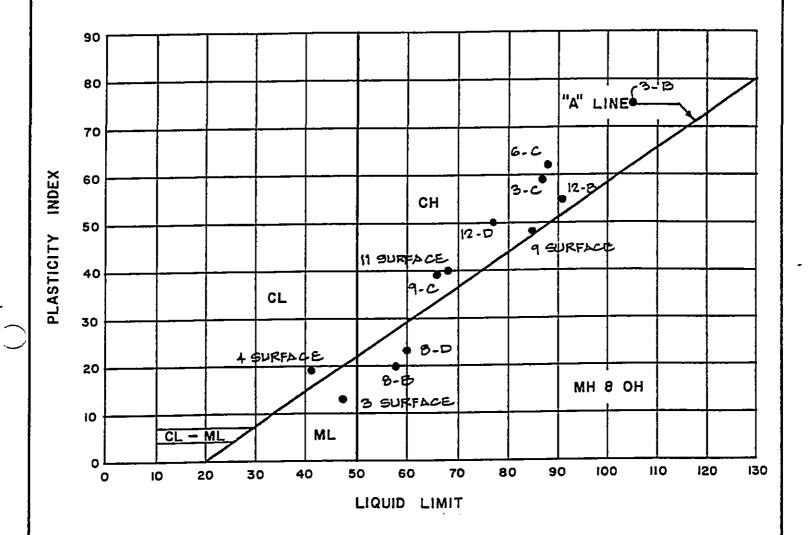
# PROPOSED CLUSTER-TYPE RESIDENTIAL DEVELOPMENT (OLD WAIALAE DRIVE-IN THEATER SITE)

# TABLE I D - SUMMARY OF LABORATORY TEST RESULTS

BORING NO.	12	12		
SAMPLE NO.	B 2.5'-3.0'	D 10.0'-11.5'		
DEPTH BELOW SURFACE	_2.53.0	10.0 -11.5		
	MOTT.BRN.	BROWN CLAY		
DESCRIPTION	WGRLVEL DEC. ROCK	JGRAVEL JDEC. ROCK (FILL)		<del></del>
GRAIN-SIZE ANALYSIS	(FILL)	C. 7229		
(% Passing)	•			
Sieve				
1-1/2"				
i" '				
1/2"				
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*MO				
#20	<u> </u>	<del></del>		
#+40		<del></del>	<del></del>	
<del>/</del> A100			<del></del>	
<i>⊯</i> ≱200				
ATTERBERG LIMITS				
Air Dried or Natural	NATURAL_	<u>NATURAL</u>		
Liquid Limit	91	77		
Plastic Limit	36	27		
Plasticity Index	55	50		
Natural Water Content,%	31	38		
	SLOW	SLOW-NONE		
Dilatancy	MEDIUM STIFF			···
Toughness	MEDIUM HIGH	HIGH_		
Dry Strength	<u> </u>			
UNIFIED SOIL CLASSIFICATION	CH	<u>CH</u>		
APPARENT SPECIFIC GRAVITY	<del></del>	2.92		
CBR TEST				
(Surcharge - 51 P.S.F.)				
Molding Moisture, %				
Molding Dry Density, P.C.F.				···
Swell upon saturation, %			<del></del>	<del></del>
CBR at O.1" Penetration	<del></del>			
MOISTURE - DENSITY RELATIONS OF SOILS				
(ASTM D-1557-70, Method )				
Dry to Wet or Wet to Dry				
Max. Dry Density (P.C.F.)				
Optimum Moisture (%)		<del></del>		
REMARKS:		WALTER LI	JM ASSOCIA	TES, INC.
			RAL & SOIL ENG	
		2142410	··· · · · · ·	

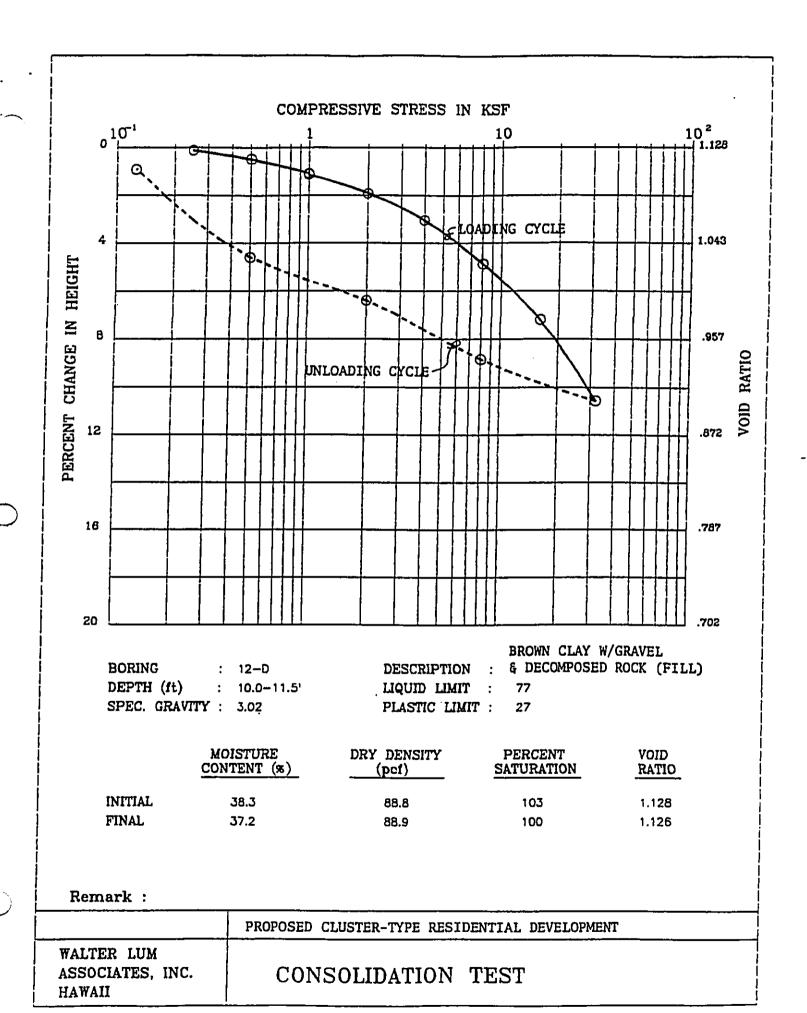
PLASTICITY CHART

PROPOSED CLUSTER-TYPE RESIDENTIAL DEVELOPMENT
PROJECT: (OLD WAIALAE DRIVE-IN THEATER SITE) LOCATION: WAIALAE AVENUE, HONOLULU, HAWAII



DATE 3-1-89 BY C.R.

WALTER LUM ASSOCIATES, INC.
CIVIL STRUCTURAL, SOILS ENGINEERS



Slope planting is recommended on cut and fill slopes to lessen erosion. Slopes should be planted in conformance with the Grading Ordinance of the City and County of Honolulu.

#### **Foundations**

For the proposed 1 to 2-story residential structures, spread or continuous footing foundations bearing on compacted, select materials over the clay surface soils and boulders may be considered.

For the future 4 to 6-story commercial structure with 1 to 2-level basement parking, foundation excavations will generally extend partly into the clay and boulder fills and partly into the lava rock formation depending upon final design considerations. Ideally, footings should all bear in the same materials, that is all in rock or all on compacted select granular backfill. As the location and structure is finalized, additional soils exploration should be made to develop design guidelines for foundations and basement walls.

Although not encountered in the borings, lava formations may contain voids or cavities. The loss of drilling water may indicate voids or cavities. Where voids or cavities are encountered or suspected at or below the bottom of the footing excavation, field adjustments may be required. Backfilling with granular material or low grade concrete or probing and grouting should be considered.

A

YAHIRU ASSOCIATES, INC. 1314 South King Street Suite 411 HONOLULU, HAWAII 96814 Phone 538-7038 FAX 531-8781

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Type of Building or Occupancy	Water Closeta (Fixtures per person)	Urinais≃ (Fixtures per person)	Lavatoriee (Fixtures per person)	Bathtube or Showers (Fixiures per person)	Fountains  (Fixtures per person)
Dwellings* Single Owelling Multiple Dwelling of Apartment House	1 per dweiling 1 per dweiling or apartment unit		i per dweiling i per dweiling or apartment unit	s per dwelling s per dwelling or apartment unit	*
Hospitals Walting Room For employee use	1 per room  Male Female 1:1-15 1:1-15 2:16-35 2:16-35 3:36-55 3:38-55 Over 55, add 1 fixture for each additional 40 persons	1 per 50	1 per room Male Female 1 per 40 1 per 40	***************************************	1 per 75 ¹⁹
Hospitals Individual Room Ward Room	1 per room 1 per 8 patients	***********	1 per room 1 per 10 patients	1 per room 1 per 20 patients	1 per 75"
Industrial Warehouses Workshops, Foundries and similar establishments (for employee use)	Male Female 1:1-10 1:1-10 2:11-25 2:11-25 3:26-50 3:26-50 4:51-75 4:51-75 5:76-100 5:76-100 Over 100, add 1 fixture for each additional 30 persons		Up to 100, 1 per 10 persons Over 100, 1 per 15 persons ^{7,8}	i shower for each 15 persons exposed to excessive heat or to skin contamination with poisonous, infectious, or irritating material.	1 per 75 ¹⁴
Institutional—other than Hospitals or Penal Institutions (on each occupied floor)	Male Female 1 per 25 1 per 20	1 per 50	Male Female 1 per 10 1 per 10	1 per 8	1 per 75"
Institutional — other than Hospitals or Penal Institutions (on each occupied floor) — for employee use	Mele Female 1:1-15 1:1-15 2:16-35 2:16-35 3:38-55 3:38-55 Over 55, add 1 fixture for each additional 40 persons	1 per 50	Male Female 1 per 40 1 per 40		

Office or Public Buildings	Male female 1:1-15 1:1-15 2:18-35 2:18-35 3:36-55 3:36-55 4:58-80 4:58-80 5:81-110 5:81-110 6:111-150 6:111-150 Over 150, add 1 fixture for each additional 40 persons		Male Female 1:1-15 1:1-15 2:16-35 2:16-35 3:36-60 3:36-60 4:61-90 4:61-90 5:91-125 5:91-125 Over 125, add 1 fixture for each additional 45 persons		1 per 75 ¹⁴
Office or Public Buildings For employee use	Male Female 1:1-15 1:1-15 2:18-35 2:18-35 3:38-55 3:38-55 Over 55, add 1 fixture for each additional 40 persons	1 per 50	Male Female 1 per 40 1 per 40		***
Penal Institutions— For employee use	Male Female 1:1-15 1:1-15 2:16-35 2:16-35 3:36-55 3:36-55 Over 55, add 1 fixture for each additional 40 persons	1 per 50	Male Female 1 per 40 1 per 40	***************************************	1 per 75**
Penal Institutions— For prisoner use Cell Exercise Room	,1 per celli 1 per exercise room	1 per exercise room	1 per cali 1 per exercise room		1 per cell block floor 1 per exercise room
Resigurants, Pubs and Lounges*	Male Female 1:1-50 1:1-50 2:51-150 2:51-150 3:151-300 4:151-300 Over 300, add 1 fixture for each additional 200 persons	1:1-150 Over 150, add 1 fixture for each additional 150 males	Male Female 1:1-150 1:1-150 2:151-200 2:151-200 3:201-400 3:201-400 Over 400, add 1 lixture for each additional 400 persons	***************************************	# # # # # # # # # # # # # # # # # # #
Schools—For staff use All schools	Male Female 1:1-15 1:1-15 2:16-35 2:16-35 3:36-55 3:36-55 Over 55, add 1 fixture for each additional 40 persons	1 per 50	Male Female 1 per 40 1 per 40		

MINIMUM PLUMBING FACILITIES

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### NOHONA KAHALA PROFESSIONAL BUILDING TRAFFIC IMPACT STUDY

Nohona Kahala, Waialae-Kahala, Island of Oahu

Prepared for:

HALE KULANA CORPORATION

By:

WILBUR SMITH ASSOCIATES

January 1991

### EXISTING CONDITIONS

The project site consists of the makai portion of the old theatre site. The site has been recently graded and is currently being used to park construction worker vehicles and heavy construction equipment.

A subdivision on the mauka portion of the old theatre site is being constructed at this time.

A variety of land uses exist in the vicinity of the project site. Directly adjacent to the site is a cemetery while across from the site is a supermarket and a church. Further away from the project site in both the mauka and makai directions are extensive residential areas.

### Existing Roadway System

The roadway system under study for this report includes Waialae Avenue intersections with the 21st Street and Hunakai Street. The project site is located along the mauka side of Waialae Avenue. Access from the project site to Waialae Avenue occurs at the Waialae Avenue/21st Street intersection at the location of the old theatre driveway. This section of Waialae Avenue is located underneath the H-1 Freeway viaduct, including the intersections both with 21st Street and with Hunakai Street. Structural columns supporting the freeway are located in the median and sides of Waialae Avenue. Waialae Avenue is a two-way, six-lane major arterial roadway servicing Ewa/Kokohead bound traffic.

The Waialae Avenue/21st Street intersection consists of a two-phase, fully-actuated traffic control signal. Left turning movements are currently permitted from the makai and Kokohead approaches. Left turns are prohibited from the Ewa approach for the Kokohead bound traffic. 21st Street is a two-lane, two-way roadway with parallel parking. Access to and from the H-1 freeway is available via ramps which intersect Waialae Avenue immediately Ewa of the 21st Street intersection.

The Waialae Avenue/Hunakai Street intersection consists of a four-phase, fully-actuated traffic control signal. Left-turning movements are permitted from all approaches. A left-turn/U-turn combination movement is permitted from the Ewa approach of this intersection. Hunakai Street is a two-lane, two-way roadway. Hunakai Street is marked as three lanes makai of Waialae Avenue and two lanes mauka of Waialae Avenue. Parallel parking is permitted on both sides of Hunakai Street at a distance away from the intersection.

### Existing Traffic Volumes

Weekday traffic movement counts were conducted by Wilbur Smith Associates at the Waialae Avenue/21st Street intersection on January 9th and 10th, 1991. Traffic movement counts for the Waialae Avenue/Hunakai Street were obtained from the City and County of Honolulu, Department of Transportation Services. The existing weekday AM and PM peak hour volumes as recorded by these counts are shown in Figure 2. The AM peak hour was observed to occur between the hours of 7:30 to 8:30 while the PM peak hour occurred between the hours of 4:00 to 5:00.

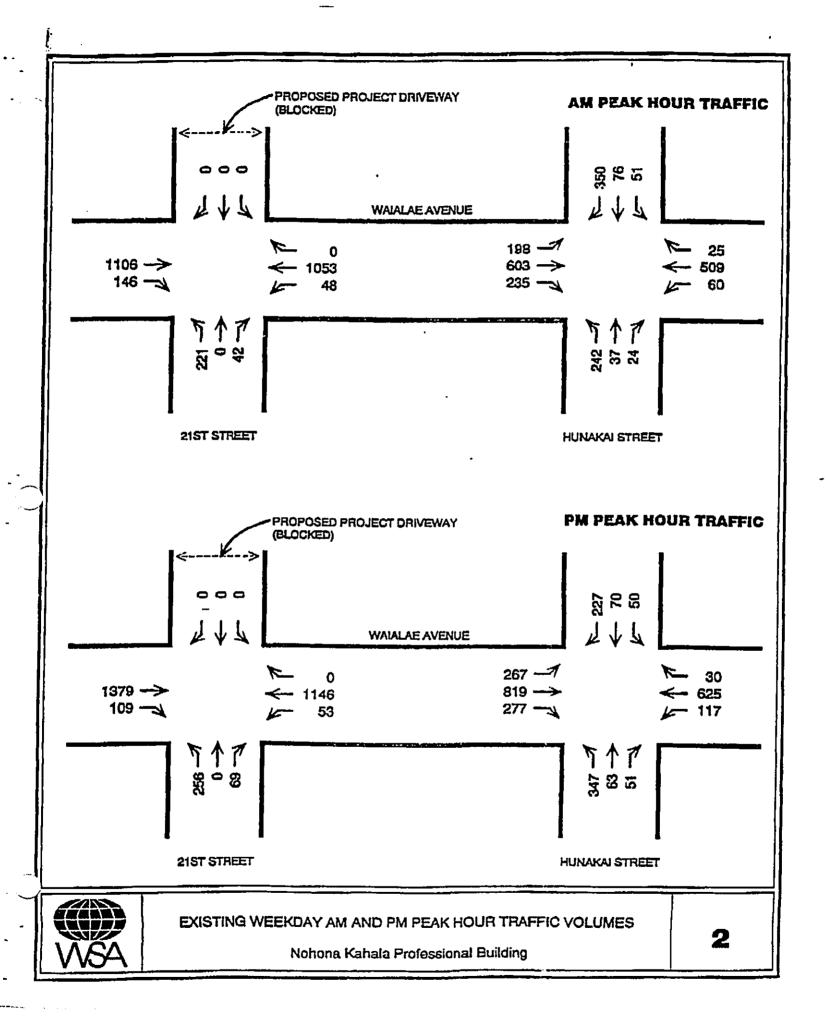
During the AM and PM peak hour traffic periods, total, traffic volumes of 2600 and 3000 vehicles respectively pass through the Waialae Avenue and 21st Street intersections. In general, Am and PM peak hour volumes through the project area were about the same in magnitude, with the PM volumes slightly higher than the AM, for most movements. Directional distribution of through traffic is nearly 50/50 in both peak periods. Typically, turning movements were heavy at the study intersections with the larger movements in the range of 200 to 350 vehicles.

At the Waialae Avenue/21st Street intersection, the largest turning movement occurred from the makai approach. Vehicles turning from 21st Street to Honolulu bound Waialae Avenue were over 200 vehicles in the AM and PM peak hour periods. Long queues of vehicles was observed on this traffic movement although all vehicles were observed to clear the intersection at each cycle.

At the Waialae Avenue/Hunakai Street intersections, the left turning movement from the makai approach during the PM peak hour and the right turning movement of the mauka approach during the AM peak hour were the largest at about 350 vehicles. The left turn/U turn combined turning movement on the Ewa approach of this intersection had about 200 vehicles in the AM peak period and 270 vehicles in the PM peak period. Stacking of vehicles occurred at all the turning movements of this intersection. Vehicles were observed to clear the intersection at each cycle except the left turning movement on the makai approach. For this movement, vehicle queues of up to a length of 1000 feet were observed and cycle failure for these vehicles occurred frequently.

### Existing Traffic Conditions

A computerized traffic analysis was performed on the existing traffic volumes to determine how the signalized intersections under study are functioning with the current traffic volumes, laneage and traffic signal controls. The methodology used in the analysis is that prescribed for signalized intersections in the



Highway Capacity Manual, 1985 edition. In this procedure, intersection operations are described in terms of a "level of service" or LOS criteria. An LOS rating for an intersection is based on average vehicle delay time computed for the intersection. LOS ratings vary from an LOS rating of "A" (little delay) to "F" (extreme delay). The LOS rating scale is further explained in Appendix A.

The analysis of current traffic conditions for the AM and PM peak hour periods are for the study intersections are shown in Table 1.

Table 1 1991 EXISTING CAPACITY ANALYSIS

INTERSECTION	V/C (1)	LOS (2)	DELAY (2) (Seconds)
Waialae Avenue and 21st Street:			
<ol> <li>AM Peak Hour</li> <li>PM Peak Hour</li> </ol>	0.79 0.83	B B	14.60 11.20
Waialae Avenue and Hunakai Street			
<ol> <li>AM Peak Hour</li> <li>PM Peak Hour</li> </ol>	0.79 0.99	C * (3)	22.30 * (3)

V/C, Volume of Capacity Ratio of Intersection LOS rating based on average vehicle delay time in seconds 2. (See Appendix A).

V/C Ratio greater than 1.2 for a lane group, HCM methodology 3. unable to calculate delay and LOS. LOS considered to be "F" under these conditions.

The analysis indicates that the Waialae Avenue/21st Street intersection is currently functioning with little delay or congestion at LOS B in the AM and PM peak hour periods. However, LOS ratings for left turning vehicles at the intersection are LOS D. More specifically, the left turn traffic on the makai and Kokohead approaches of the intersections are experiencing congestion and delay. The Waialae Avenue/Hunakai Street intersection is currently operating at LOS C in the AM peak hour and LOS F in the PM peak hour. At this intersection, the analysis indicates that the left turning movements on the makai and Ewa approaches are operating with extreme delay.

### FUTURE CONDITIONS WITHOUT THE PROJECT

The anticipated time for completion of Nohona Kahala Professional Building and full occupancy is the early part of 1993. In this chapter, an estimate of future traffic volumes will be made on Waialae Avenue at the study intersections without the addition of the project generated traffic. The estimated traffic volumes will be analyzed to determine future traffic conditions without the proposed project.

### Impacting Planned Developments

The Nohona Kahala subdivision currently under construction on the mauka portion of the Waialae Drive-In Theatre site is the only planned project in the immediate area to be considered as impacting local traffic conditions in early 1993. This subdivision consists of 55 residential lots with three and four bedroom single-family homes. Traffic estimated to be generated by this project is shown in Table 2.

### Table 2

### PLANNED DEVELOPMENT TRAFFIC

### Nohona Kahala Subdivision Peak Hour Traffic

UNITS	TYPE		VEHICL	E TRIPS	
	· · · · · · · · · · · · · · · · · · ·	Morning	Peak Hour	Afternoon	Peak Hour
		Inbound	Outbound	Inbound	Outbound
55	Single-Family Homes	11	30	35	20

^{1.} Traffic generation taken from <u>Trip Generation Manual</u>, Institute of Transportation Engineers, 4th Edition.

^ ^

Access to the subdivision is planned via Keanu Street off of Hunakai Street. The project is estimated to be completed and fully occupied by late 1991.

Traffic assignment of the Nohona Kahala Subdivision was based on the existing traffic patterns. Traffic for this project was added to the intersections of Waialae Avenue/Hunakai Street and Waialae Avenue/21st Street.

### Future Traffic Growth

Based on the examination of historic traffic increases on Waialae Avenue and in the general area, a yearly traffic volume increase rate of four (4%) percent was determined. Based on a two year time period, a traffic growth factor of eight (8%) percent was calculated. This factor is applied to existing traffic volumes to obtain an estimate of future traffic volumes.

### Future Traffic Volumes and Conditions

The existing traffic volumes from figure 2 were increased by the eight (8%) percent growth factor. In addition, the planned development traffic was combined with these volumes to estimate the 1993 traffic volumes without the project.

The analysis of the future traffic conditions without the project is summarized in Table 3.

In comparison to the existing traffic conditions of Table 1, the analysis indicates a general deterioration in LOS ratings with increased intersection delay times and volume to capacity ratios.

Table 3
1993 FUTURE CAPACITY ANALYSIS WITHOUT PROJECT

	INTERSECTION	V/c (1)	LOS (2)	DELAY (2) (Seconds)
	alae Avenue and 1st Street:			
1.	AM Peak Hour PM Peak Hour	0.86 0.91	C B	21.60 13.60
	alae Avenue and unakai Street			
1.	AM Peak Hour PM Peak Hour	0.90 1.12	* (3) * (3)	* (3) * (3)

^{1.} V/C, Volume of Capacity Ratio of Intersection

LOS rating based on average vehicle delay time in seconds (See Appendix A).

^{3.} V/C Ratio greater than 1.2 for a lane group, HCM methodology unable to calculate delay and LOS. LOS considered to be "F" under these conditions.

### FUTURE CONDITIONS WITH THE PROJECT

The Nohona Kahala Professional building is expected to be constructed and fully leased by the early part of 1993. Access to and the proposed project will be through an existing driveway formerly used by the Waialae Theatre. The driveway is located on the mauka approach of the Waialae Avenue/21st Street intersection. The driveway has access to a traffic signal at this intersection. Currently, traffic movements from this driveway would occur during the same signal phase as the 21st Street traffic movements.

### Traffic Generation

The proposed project is to provide 100,500 square feet of office space. Based on this amount of office space, the traffic generated by the project and the distribution of project traffic inbound and outbound of the project driveway is shown in Table 4.

### Table 4

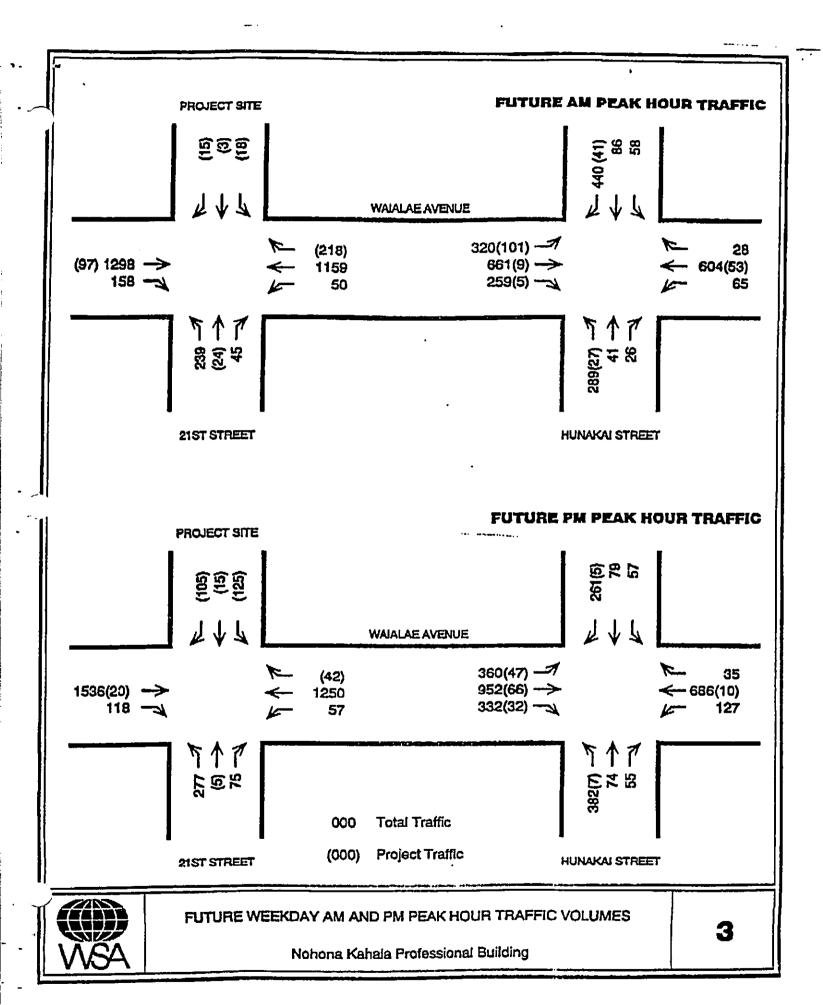
### PROJECT GENERATED PEAK HOUR TRAFFIC Nohona Kahala Professional Building

UNITS	TYPE			VEHICLE	TRIPS (1	)	
SQ. FT.	, <del></del> ;;	MORNIN	IG (AM)	PEAK HOUR			PEAK HOUR
O &		Total	Inbound	Outbound	Total	Inbound	Outbound
100,500	Office	278	242	36	292	47	245

^{1.} Traffic Generation taken from <u>Trip Generation Manual</u>, Institute of Transportation Engineers, 4th Edition.

### Traffic Assignment

Project generated traffic was assigned to the adjacent roadway system based on the existing traffic volumes. The estimated vehicle trips inbound and outbound of the proposed project as shown above in Table 4 were assigned to intersections of Waialae Avenue with 21st Street and Hunakai Street. The assigned project traffic and total estimated future generated traffic for 1993 is shown on Figure 3.



The project driveway is located on the makai approach of the Waialae Avenue/21st Street intersection. Outbound traffic assignment at this project driveway during the AM and PM peak hours was the following:

45 percent right or Ewa bound

- 5 percent through or makai bound 50 percent left or Kokohead bound

Inbound traffic assignment at this intersection was the following:

- o 90 percent right from the Kokohead approach
- o 10 percent through from the makai approach

The 90 percent assignment consisted of 50 percent from the Ewa bound direction and 40 percent from the Kokohead bound direction. The 40 percent Kokohead bound traffic reaches the project driveway and combines with the Ewa bound traffic by making the permitted U-turn movement on the Ewa approach at the Waialae Avenue/Hunakai Street intersection.

The AM and PM outbound traffic assignment at the Waialae Avenue/Hunakai Street intersection on the Ewa approach of the intersection was distributed as follows:

10 percent left or mauka bound 30 percent through or Kokohead bound

10 percent right or makai bound

Inbound traffic assignment at this intersection was as follows:

15 percent left from the makai approach

o 25 percent through from the Kokohead approach

o 10 percent right from the mauka approach

### Future Traffic Conditions

A traffic analysis was completed on the estimated future traffic volumes with the project traffic as shown in Table 5. The analysis was conducted using the present intersection geometrics and traffic signal timing. The results of this capacity analysis is shown in Table 5.

The analysis indicates that the Waialae Avenue/21st Street intersection operations will deteriorate to LOS D and LOS F in the AM and PM peak hour periods, respectively. The analysis identifies that the Kokohead bound through-right traffic movement in the AM and the mauka bound left-through-right movement in the PM are the most critical traffic movements of the intersection.

The Waialae Avenue/Hunakai Street intersection continues to operate at LOS F in the AM and PM peak hour periods. However, the analysis indicates that the project traffic increases the volume-to-capacity ratio of the AM period by about ten (10%) percent. This increase is attributed primarily from inbound project traffic. Traffic entering the site from the Kokohead bound direction increases the left turning volume on the Ewa approach of the intersection. These vehicles must perform the U-turn movement to access the project driveway. The analysis indicates that the project traffic in the PM period increases the volume to capacity ratio only about five (5%) percent. This is considered a negligible increase.

Table 5
1993 FUTURE CAPACITY ANALYSIS WITH PROJECT

	INTERSECTION	V/C (1)	LOS (2)	DELAY (2) (Seconds)			
	alae Avenue and 1st Street:						
1.	AM Peak Hour PM Peak Hour	0.93 1.19	D * (3)	35.70 * (3)			
••	alae Avenue and unakai Street						
1.	AM Peak Hour PM Peak Hour	1.00 1.18	* (3) * (3)	* (3) * (3)			

1. V/C, Volume of Capacity Ratio of Intersection

 LOS rating based on average vehicle delay time in seconds (See Appendix A).

* * *

Overall, the project generated traffic has very minor impacts on the future traffic conditions of the Waialae Avenue/Hunakai Street intersection.

^{3.} V/C Ratio greater than 1.2 for a lane group, HCM methodology unable to calculate delay and LOS. LOS considered to be "F" under these conditions.

### Mitigation Measures

In order to mitigate the effects of the project on traffic conditions at the Waialae Avenue/Hunakai Street intersection, the following measures are appropriate:

- 1. An additional lane could be added to the 21st Street approach of the intersection. The lane could be modified to include one exclusive left turn lane and one combined left-through-right lane.
- 2. An additional signal phase could be added for the project driveway so that traffic movements on the mauka and makai approaches would be separated. The separate signal phases would provide a protected movement of the left, through, and right traffic from each street without any opposing traffic.

A traffic analysis was performed with these two modifications to the Waialae Avenue/Hunakai Street intersections. The results of this analysis is shown in Table 6. The existing condition of the stop signal control for makai bound traffic at this intersection will continue to remain with the modified intersection.

The analysis indicates that the intersection can operate with a LOS of C and B in the AM and PM peak periods respectively, with the intersection modifications. In comparison to the future traffic conditions without the project, the analysis indicates that the intersection will operate with relatively no impact to overall future traffic flow conditions. This conclusion is based on the assumption that intersection improvements are implemented.

Although the project traffic was indicated by the analysis to have very minor impacts to the Waialae Avenue/Hunakai Street intersection, several potential intersection modifications were investigated relative to improving overall traffic conditions at this intersection.

- On the makai approach, an exclusive right lane is striped to the existing intersection. Furthermore, an exclusive left turn lane and an exclusive left-through lane is striped to the approach.
- On the mauka approach, an exclusive left-through lane and an exclusive right-through lane is striped to the approach.
- 3. The signal phases for the mauka/makai approaches could be separated to minimize conflicts with the double left turn movement.

With these minor intersection modifications, a traffic analysis of the Waialae Avenue/Hunakai Street intersection was performed. The results of this analysis are shown in Table 6.

The analysis indicates the intersection can operate with a LOS of D in the AM and PM peak hours with intersection improvements.

Table 6 1993 FUTURE CAPACITY ANALYSIS SUMMARY

WITH PROJECT	AND INTERSECTI	ON IMPROVEMENTS	<u> </u>
INTERSECTION	V/c (1)	LOS (2)	DELAY (2) (Seconds)
Waialae Avenue and 21st Street: 1. AM Peak Hour 2. PM Peak Hour	0.80 0.87	С В	16.60 14.70
Waialae Avenue and Hunakai Street: 1. AM Peak Hour 2. PM Peak Hour	0.78 0.89	D D	26.60 34.80
	WITHOUT PROJE	CT	
INTERSECTION	V/C (1)	LOS (2)	DELAY (2) (Seconds)
Waialae Avenue and 21st Street: 1. AM Peak Hour 2. PM Peak Hour	0.86 0.91	C B	21.60 13.60
Waialae Avenue and Hunakai Street: 1. AM Peak Hour 2. PM Peak Hour	0.90 1.12	* (3) * (3)	* (3) * (3)

^{1.} 

PM Peak Hour

V/C, Volume of Capacity Ratio of Intersection
LOS rating based on average vehicle delay time in seconds
(See Appendix A).
V/C Ratio greater than 1.2 for a lane group, HCM methodology
unable to calculate delay and LOS. LOS considered to be "F"
under these conditions 3.

### RECOMMENDATIONS

Based on the traffic analysis performed in this report, the following recommendations are proposed in order to accommodate the project traffic on the existing roadway system.

Intersection modifications are necessary on the Waialae Avenue/21st Street intersection to accommodate the project traffic. The existing condition of the stop sign control for makai bound traffic continues to operate with the intersection modifications.

- 1. An additional lane should be provided on the makai approach of the intersection. The new laneage for the approach should consist of one exclusive left turn lane and one combined left-through-right lane. The additional lane could be provided by widening several feet within the existing right-of-way and by restricting parking for a short distance along the Kokohead side of 21st Street.
- 2. The makai/mauka bound approaches of the intersection should operate during separate signal phases. This modification does not affect the LOS of the makai approach provided that modification one is completed.

Intersection modifications do not appear to be necessary on the Waialae Avenue/Hunakai Street intersection to accommodate the project traffic. However, potential intersection improvements are suggested in this report as follows:

- 1. The laneage on the makai approach of the intersection should be restriped to provide an exclusive left turn lane, a shared left-through lane, and an exclusive right turn lane. These modifications could be provided by restriping the existing pavement.
- The laneage on the mauka approach should be restriped to provide a left-through lane and a right-through lane.
- 3. The makai/mauka bound approaches of the intersection should operate on separate signal phases. This modification improves the LOS of the makai approach provided that modification one is completed.

LEVEL OF SERVICE "A" - V/C = 0 TO 0.60

Describes operations with very low delay, i.e., less than 5 seconds per vehicle. This occurs when signal progression is extremely favorable, and most vehicles arrive during the green phase. Most vehicles do not stop at all.

LEVEL OF SERVICE "B" - V/C = 0.61 TO 0.70 Describes operations with delays in the range of 5 to 15 seconds per vehicle. This generally occurs with good progression and/or short cycle lengths. More vehicles stop than for LOS "A", causing higher levels of average delay.

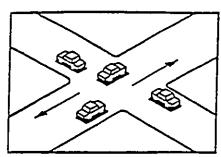
LEVEL OF SERVICE "C" - V/C = 0.71 TO 0.80 Describes operation with delay in the range of 15 to 25 seconds per vehicle. Occasionally vehicles may wait more than one red signal phase. The number of vehicles stopping is significant at this level, although many still pass through the intersection without stopping.

LEVEL OF SERVICE "D" - V/C = 0.81 TO 0.90 Describes operations with delay in the range of 25 to 40 seconds per vehicle. At LOS "D", the influence of congestion becomes more noticeable. Many vehicles stop, and the proportion of vehicles not stopping declines. Noticeable numbers of vehicles fail to clear signal during the first green phase.

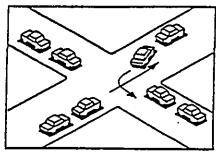
LEVEL OF SERVICE "E" - V/C = 0.91 TO 1.00 Describes operations with delay in the range of 40 to 60 seconds per vehicle. These high delay values generally indicate poor progression, long cycle lengths, and high V/C ratios. Vehicles frequently fail to clear the signal during the first green phase.

LEVEL OF SERVICE "F" - V/C GREATER THAN 1.00 Describes operations with delay in excess of 60 seconds per vehicle. This condition often occurs with oversaturation, i.e., when arrival flow rates exceed the capacity of the intersection.

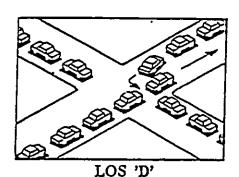
SOURCE: Highway Capacity Manual, 1985.







LOS 'C'



LOS 'F'



SIGNALIZED INTERSECTION LEVEL OF SERVICE DIAGRAM

APPENDIX

Α

EXHIBIT F

.



YAHIRU ASSOCIATES, INC. 1314 South King Street Suite 411 HONOLULU, HAWAII 96814 Phone 538-7038 FAX 531-8781

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Type of Building or Occupancy	Water Cloesta (Fixtures per person)	Urtnale* (Fixtures per person)	Lavatories (Fixtures per person)	Sethtube or Showers (Fixtures per person)	Drinking Fountains** (Fixtures per person)
Dwellings* Single Owelling Multiple Dwelling or Apartment House	1 per dwelling 1 per dwelling or apartment unit	400420000404	1 per dwelling 1 per dwelling or spartment unit	1 per dwelling 1 per dwelling or apartment unit	
Hospitals Walling Room For amployee use	1 per room  **Male Female 1:1-15 1:1-15 2:18-35 2:18-35 3:36-55 - 3:36-55 Over 55, add 1 fixture for each additional 40 persons	1 per 50	1 per room Mele Female 1 per 40 1 per 40	***************************************	1 per 75 ¹²
Hospitala Individual Room Ward Room	1 per room 1 per 8 patients		1 per room 1 per 10 patients	1 per room 1 per 20 patients	1 per 75"
Industrial Warehouses Workshops, Foundries and aimilar establishments (for employee use)	Male 1:1-10 1:1-10 2:11-25 2:11-25 3:26-50 3:26-50 4:51-75 4:51-75 5:76-100 5:76-100 Over 100, edd 1 fixture for each additional 30 persons		Up to 100, 1 per 10 persons Over 100, 1 per 15 persons**	I shower for each 15 persons exposed to excessive heat or to skin contamination with poisonous, infectious, or irritating material.	1 per 75"
Institutional—other than Hospitals or Penal Institutions (on each occupied floor)	Male Famale 1 per 25 1 per 20	1 per 50	Male Female 1 per 10 1 per 10	1 per 8	1 per 75"
Institutional—other than Hospitals or Penal Institutions (on each occupied floor)—for employee use	Male Female 1:1-15 1:1-15 2:16:35 2:16:35 3:36:55 3:36:55 Over 55, add 1 fixture for each additional 40 persons	1 per 50	Maie Female 1 per 40 1 per 40	***************************************	T

Office or Public Buildings	Male Female 1:1-15 1:1-15 2:16-35 2:16-35 3:36-55 3:36-55 4:56-80 4:56-80 5:81-110 5:81-110 6:111-150 6:111-150 Over 150, add 1 fixture for each additional 40 persons		Male Female 1:1-15 1:1-15 2:16-35 2:18-35 3:36-60 3:36-60 4:61-90 4:61-90 5:91-125 5:91-125 Over 125, add 1 flxture for each additional 45 persons	************	1 per 75"
Office or Public Buildings For employee use	Male Female 1:1-15 1:1-15 2:16-35 2:18-35 3:38-55 3:36-55 Over 55, add 1 fixture for each additional 40 persons	1 per 50	Male Female 1 per 40 1 per 40		
Pensi Institutions — For employee use	Male Female 1:1-15 1:1-15 2:18-35 2:18-35 3:36-55 3:36-55 Over 55, add 1 fixture for each additional 40 persons	1 per 50	Male Female 1 per 40 1 per 40	***************************************	1 per 75 ¹⁹
Penal Institutions— For prisoner use Cell Exercise Room	1 per cell 1 per exercise room	1 per exercise room	t per cell t per exercise room	***************************************	1 per cell block floor 1 per exercise room
Resisurants, Pubs and Lounges*	Male Female 1:1-50 1:1-50 2:51-150 2:51-150 3:151-300 4:151-300 Over 300, add 1 fixture for each additional 200 persons	1:1-150 Over 150, add 1 fixture for each additional 150 males	Male Female 1:1-150 1:1-150 2:151-200 2:151-200 3:201-400 3:201-400 Over 400, add 1 lixture for each additional 400 persons		
Schools—For staff use All schools	Male Famale 1:1-15 1:1-15 2:16-35 3:36-55 3:36-55 3:36-55 Over 55, add 1 fixture for each additional 40 persons	1 per 50	Male Female 1 per 40 1 per 40		

### 2/4/9/ DIVISION OF WASTEWATER MANAGEMENT City and County of Honolulu

57/31

(Allow at least three weeks for processing of application)

[INT]

APPLICATION FOR SEWER CONNECTION

RECEIVED

DIV. 1914

RECEIVED

DIV. 1914

[INT]

PLE	ASE PRINT
	PART A - TO BE FILLED BY APPLICANT
1.	Project Name: Nohona Kahala Commercial Bldp.
2.	Address or Location: Waialar Avenue
3.	Tax Map Key: 3-3-12: Portion of 29
4.	Type Development: PD-H Cluster Subdiv.  Apt. Other Re-Zoning R-5 70 B-2
5.	Total No. of Units (Give breakdown below)  Studio 1 Bdrm. 2 Bdrm. 3 Bdrm.  4 Bdrm. Other:
6.	Sewer Connection Work Desired: (Give length, size, depth, etc.)
	Existing Connection
-	Approximate Date Connection is Required:/99/
8.	Number and Type of Existing Structures on Property:
	(Check One: Structures to Remain To be Demolished )
9.	Remarks: Proposed Re-Zoning From R-5 70 B-Z  Approx. 100,000 Sg. ft. Butg Lot  39223
10.	Information provided By: (MAILING ADDRESS)
	Name:
-	PART B - TO BE FILLED BY DIVISION OF WASTEWATER MANAGEMENT
2.	Present Zoning: General Plan:
2.	Sewers: Adequate Inadequate Not Available
3.	Charges: Yes No X sq. ft \$ Rate Area
	b. Sewer Connection \$ \$ \$
4.	Remarks:
J	
5.	Application:
	(Valid for One Year After Date of Approval)
	Not Approved: Date

EXHIBIT G

OWNERSHIP HISTORY
OF
SUBJECT PROPERTIES

# HISTORICAL ENVIRONMENTAL EXAMINATION

TMK: 1-3-3-12-1,22,24,28,29,48,50

NOHONA KAHALA DEVELOPMENT WAIALAE KAHALA PARTNERS INC. This historical examination of ownership and use produced no known incidents of use of the sites for (a) landfill, or for the storage (in underground tanks or otherwise) of hazardous materials; (b) nor any environmentally hazardous materials or toxic substances otherwise placed, located, held, manufactured or stored on, under or within the properties; nor will we utilize ( 0r produce as a byproduct ) any environmentally-hazardous materials in the conduct of our business on the properties.

The examination utilized: a)oral history, b)government record, tax record, Hawaii State Archaeologist, Department of Commerce and Consumer Affairs, U.S. Army Corps of Engineers, State Dept. of Health, Environmental Permits Branch, State Tax Office records.

Following is a chronological history of ownership and use compiled from the sources noted.

# HISTORY OF OWNERSHIP

Uses

# TMK: 3-3-12-PARCEL 1 and PARCEL 29:

State Tax Office History Sheet	State Tax Office History Sheet Field Book/Bureau of Conveyances	State Tax Office History Sheet Field Book/Bureau of Conveyances	State Tax Office History Sheet Field Book/Bureau of Conveyances	State Tax Office History Sheet Field Book/Bureau of Conveyances
<u>DESCRIPTION</u> Hawaiian Land Co. Ltd. to <u>George F. Straub</u> Instrument 85708 Bk 435 p 63 10.785 Acs.	George F. Straub to <u>Guy C. Milnor</u> 10.785 Acs.	Guy C. & Nell P. Milnor to <u>Bishop Trust Co., Ltd.</u> Bk 498 p 299 10.785 Acs.	Bishop Trust Co., Ltd. to <u>Ocean View Ass'n, Ltd.</u> Bk 500 p 3 10.785 Acs.	Ocean View Cemetery Ass'n. Ltd. to <u>Tsen Kong</u> Bk 840 p 459 10.632 Acs.
<u>DATE</u> 9/30/15	8/25/17	5/02/18	6/14/18	9/22/26

Not included in this purchase Cemetery on Section of Prop This was a 50' Right of Way Is now know as parcel #1 Now identified as Parcel 27 **Business Registration** Field Book/Bureau Field Book/Bureau DCCA and Senator Field Book/Bureau of Conveyances of Conveyances State Tax Office of Conveyances State Tax Office State Tax Office History Sheet History Sheet History Sheet Hiram Fong Kaimuki Land Co., Ltd. to Ocean View Cemetery Leong Yee, Tr. to Ocean View Cemetery, Ltd. Instrument 84041 Bk 1351 p 52 9.742 Acs from the original 10.785 Acs. to 9.742 by 1936 Bishop Estate to Ocean View Cemetery, Ltd. Instrument 95189 .097 Acs. From 1915 to 1936 some square footage was Tsen Kong to Leonard Y. K. Fong, Receiver Instrument 66844 Bk 1273 p 478 9.742 Acs. deeded out of Parcel #1 reducing it in size Ass'n, Ltd,Instrument 85708 Bk 1356 p 56 Leonard Y. K. Fong to Leong Yee, Tr. Instrument 84040 Bk 1351 p 52 9.742 Acs There were also additions: .165 Acs. (Parcel 29) 01/21/37 11/26/37 6/25/35 12/3/36 4/03/35

J. W. Achuck to Ocean View Cemetery, Ltd.

09/15/48

Instrument 53151 .174 Acs.

2/02/55 Parcel 29 dropped into parcel 1

30/55 Ocean View Cemetery Ltd, to <u>Royal Theaters Ltd.</u> 02/55 Parcel 29 from parcel 1 (6.043 Acs.)

State Tax Office History Sheet Field Book/Bureau of Conveyances

Drive In Theatre - 3/30/55-1/9/86 Swap Meet approx last 2 yr Concurrent w/Drive In Use 1986-87 & Part of 1988
Driving Range

03/05/68 Merger: Royal Theaters, Ltd, with and into Royal Development Company, Ltd.

Business Registration DCCA & Senator Hiram Fong

02/02/68 From 6.043 Acs., .424 Acs. dropped into road. Bk 8735 p299, leaving balance of 5.619 Acs.

After considerable research and dilligent investigation, to the best of our knowledge, TMK 1-3-3-12-parcels 1 and 29 were never used for the following purposes.

Recreation, Historic Sites. State has no record of ancient burial site located on subject property and has no reason to believe it was ever used as one due to its location, its prior use as a quarry, its history of ownership and use. (As per discussion in No Pre-contact burial. Reference: Joyce Bath, Archaeologist, State Department of Land and Natural Resources, Parks and

Phone: 548- 7460, 1151 Punchbowl, Honolulu, Hi. 96813.

No Industrial use. Reference: Department of Commerce and Consumer affairs. (8/24/89) તં

No Military use. Reference: Mike Taylor, Pacific Ocean Division, U.S. Army Corps of Engineers, Real Estate Division. Building 230, Fort Shafter, Attention: CEPOD-RE-C, Honolulu, Hawaii 96858-5440. (8/24/89) Pending Confirmation. છ

No Land Fill. Refernce: Mr. Al Dung, State Department of Health, "Environmental Permits Branch", 645 Halekauwile St., 3: Fl., Honolulu, Hawaii. Phone: 548-6410 (8/23/89) 4

AN 30 91 15:59 P. M. TOWILL CORP. 8	308 842-1937	P. 1
R. M. TOWILL CORPORATION Facsimile No. (808) 842-1937		Honolulu, Hawaii 96817 • (808) 842-113
TO: HALE KULANI CORP.	DATE:	1-30-91
THE THE PERSON LONGITY TO	_ FROM:	Craig Luke
ATIN: LECNARD MCMULLIN NO. OF PAGES:		: NOHONA KAHALA
(INCLUDING THIS SHEET)	Please co	B NO.:
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In regard to the commercial propert	y at the Ol	d Waialae Drive In site, we feel
that the increase in runoff from th	e develoame	nt of this property will not
cause any drainage problems with pro	oper draina	ge system design.
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EXHIBIT H

## NO Documents

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