

1. Unless otherwise specified, all materials and construction of water system facilities and appurtenances shall be in accordance with the STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION dated 1976, as amended, of the Hawaii Highways Division, Department of Transportation.
2. Prior to excavation for new drain, sewer and other utility lines, the Contractor shall verify in the field the location of existing water mains and appurtenances. Where the installation of new drain, sewer or other utility lines are to cross over or under existing water mains, the Contractor shall expose the existing water mains prior to trenching. Excavation around water mains shall be done by hand.
3. Items indicated as "relocate" on the plans shall be removed, cleaned, painted and reinstalled at the new location by the Contractor unless otherwise specified.

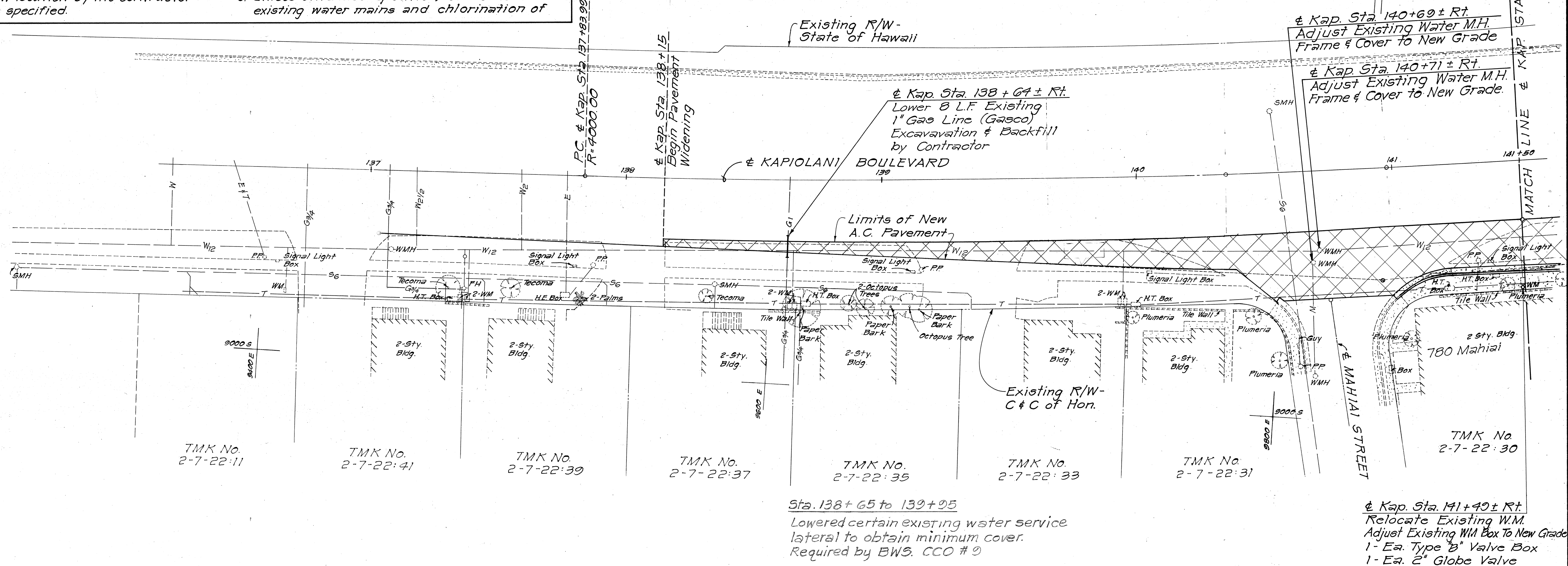
4. The minimum clearance between fire hydrants and utility poles or light standards shall be 3.0 feet.
5. The Contractor shall notify the Board of Water Supply in writing one week prior to commencing work on the main.
6. Approval by the Board of Water Supply is based solely on the adequacy of the water supply.
Discrepancies, if any, of alignments, grades, fittings, etc. shall be the responsibility of the Engineer who prepared the plans.
7. The existing location of underground utilities and structures as shown on the plans are from the latest available data but is not guaranteed as to the accuracy or the encountering of other obstacles during the course of the work. The Contractor shall be responsible and shall pay for all damages to all existing utilities.
8. Unless otherwise specified, connections to existing water mains and chlorination of

- of new mains shall be done by the Contractor, with the BWS Inspector coordinating the work. For details, contact BWS Planning and Engineering Division, Engineering Branch, Construction Section.
- All cast iron (gray/or ductile) pipe fittings and valves shall be enclosed in plastic material in accordance with ANSI Specifications A 21.5-1972 or AWWA Specifications C105-72 "Polyethylene Encasement for Gray and Ductile Cast Iron Piping for Water and Other Liquids."
- Reapproval shall be required if this project is not under construction within a period of one year. (See Rules and Regulations of the Board of Water Supply.)
- In the event that water mains other than ductile iron is to be used, plans shall be resubmitted for approval.

1. Upon approval from the BWS Inspector, the existing meters shall be individually removed and immediately relocated to the new meter boxes. Down time to individual users shall be minimal.
2. Additional copper line piping to connect to several individual dwellings are also required. All fittings and piping shall be provided by the contractor to make this connection.

For Gas Notes See Sheet No. 28

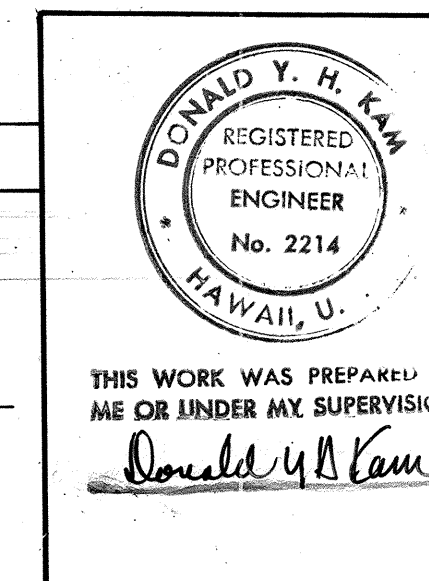
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(157):24	1979	15	146



Sta. 138+65 to 139+95
Lowered certain existing water service
lateral to obtain minimum cover.
Required by BWS. CCO # 9

4 Kap. Sta. 141+40 ± Rt.
 Relocate Existing W.M.
 Adjust Existing W.M. Box To New Grade
 1- Ea. Type B" Valve Box
 1- Ea. 2" Globe Valve

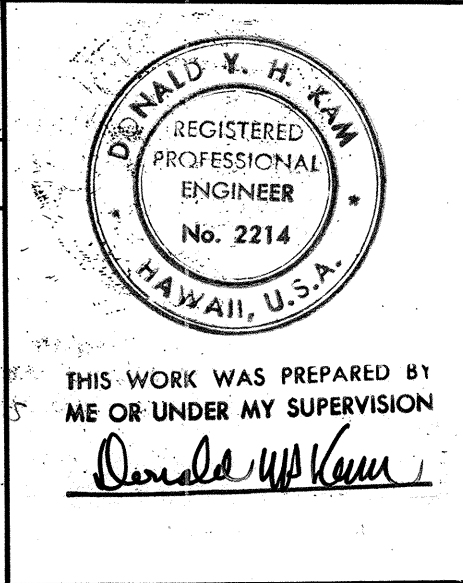
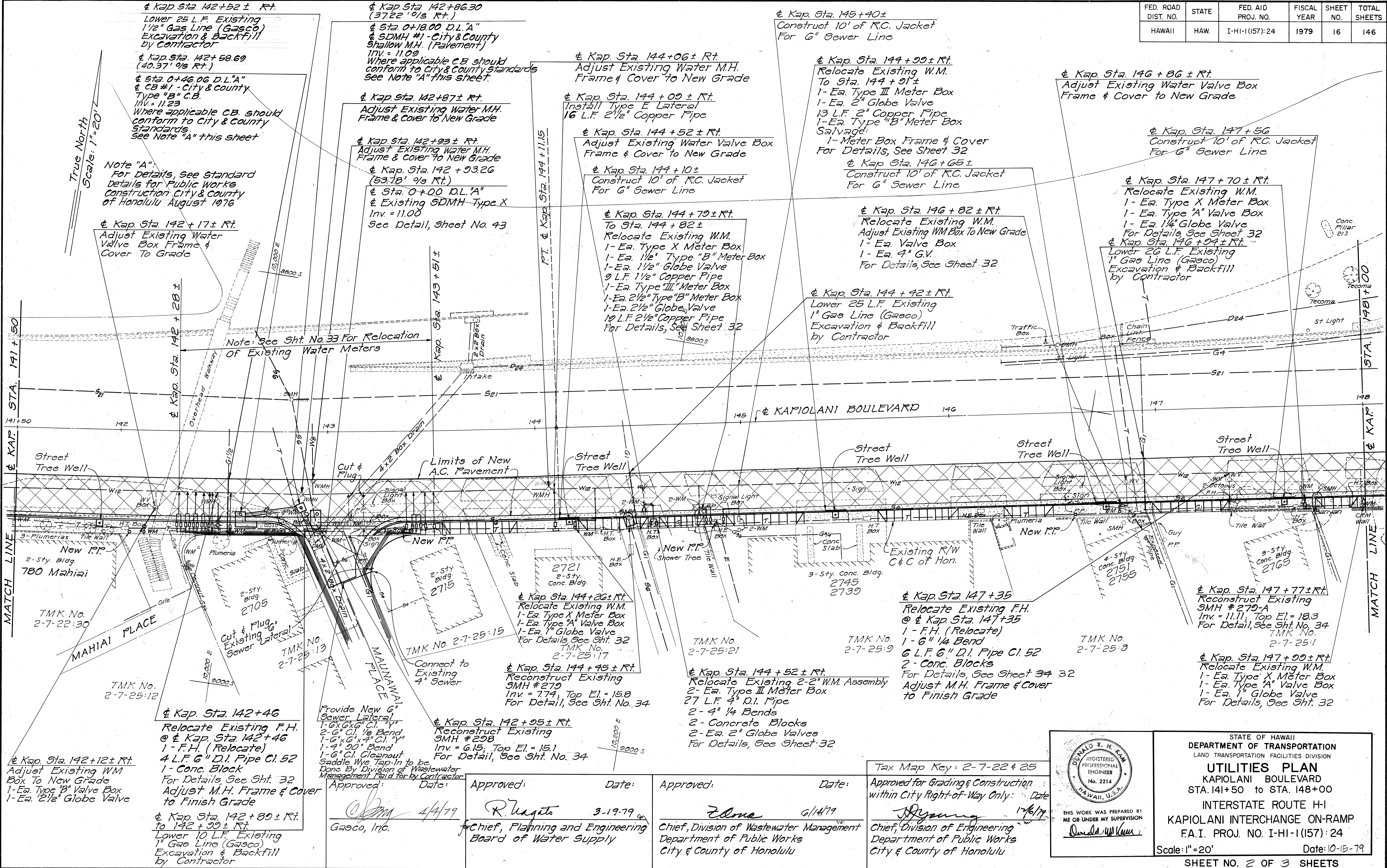
Approved:  Date: 4/4/79 Gasco, Inc.	Approved:  Date: 6/14/79 Chief, Div. of Wastewater Management Department of Public Works City & County of Honolulu	Approved:  Date: 3-19-79 Chief, Planning and Engineering Board of Water Supply	Approved for Grading & Construction within City Right-of-Way Only:  1/6/79 Chief, Division of Engineering Department of Public Works City & County of Honolulu
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION
UTILITIES PLAN
KAPIOLANI BOULEVARD
STA. 137+00 to STA. 141+50
INTERSTATE ROUTE H-1
KAPIOLANI INTERCHANGE (I57)-RAMP
F.A.I. PROJ. NO. I-HI-1 (I57)-24
Scale: 1" = 20' Date: 10-15-74

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1 (157):24	1979	16	146

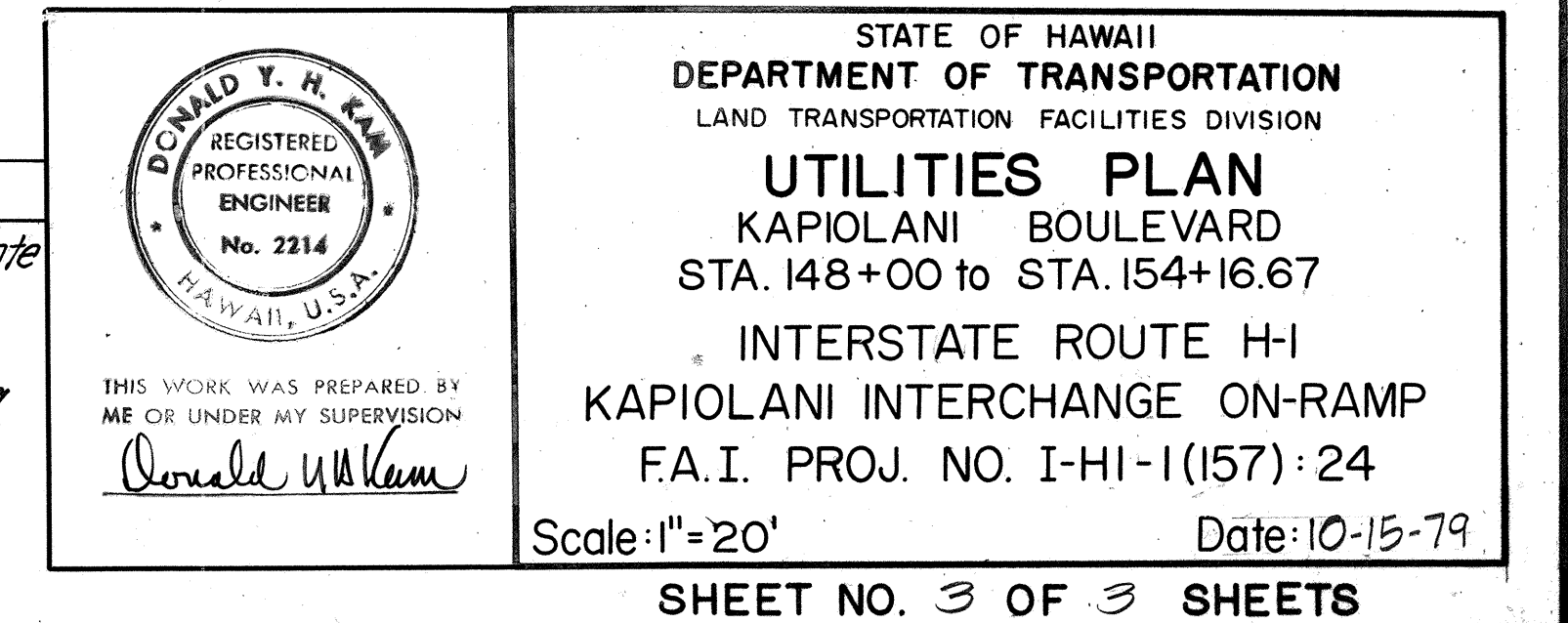
DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
DESIGNED BY	_____
CHECKED BY	_____
NO.	_____



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

UTILITIES PLAN
KAPIOLANI BOULEVARD
STA. 141+50 to STA. 148+00
INTERSTATE ROUTE HI
KAPIOLANI INTERCHANGE ON-RAMP
F.A.I. PROJ. NO. I-HI-1 (157):24
Scale: 1"=20' Date: 10-15-79
SHEET NO. 2 OF 3 SHEETS

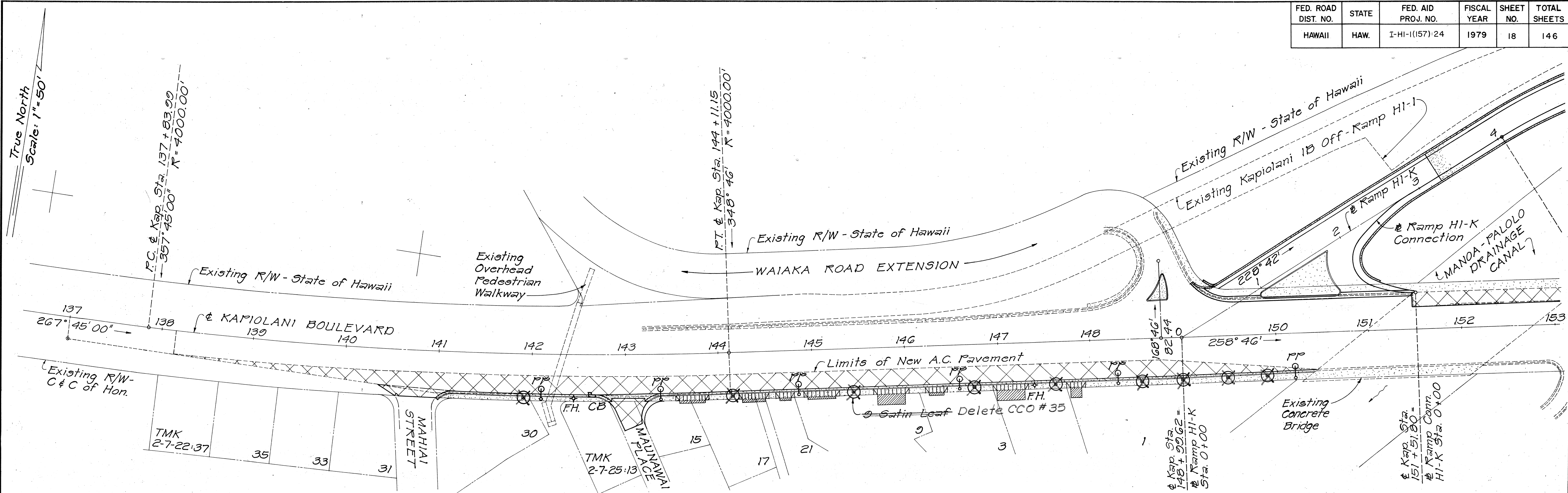
ORIGINAL PLAN	SURVEY PLOTTED BY _____	DATE _____
	DRAWN BY _____	" _____
	TRACED BY _____	" _____
NOTE BOOK	DESIGNED BY _____	" _____
	QUANTITIES BY _____	" _____
No. _____	CHECKED BY _____	" _____



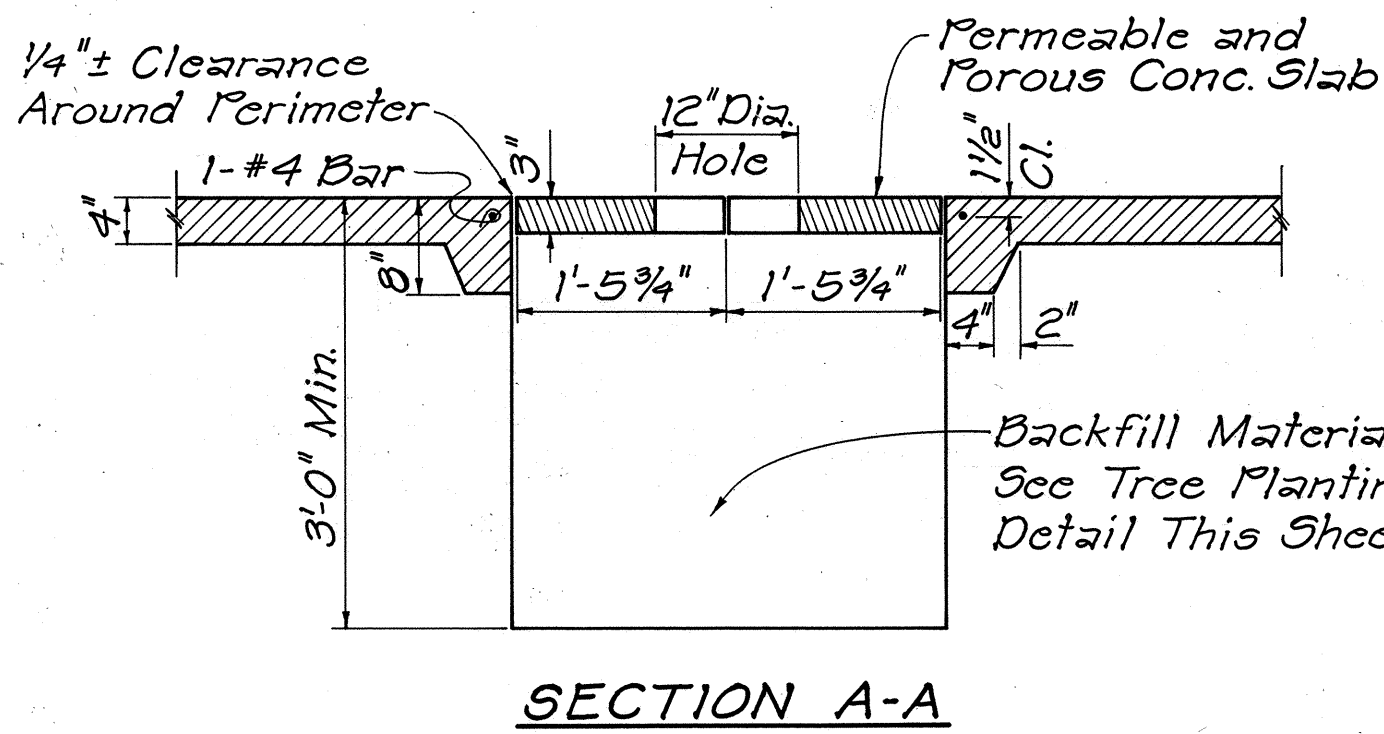
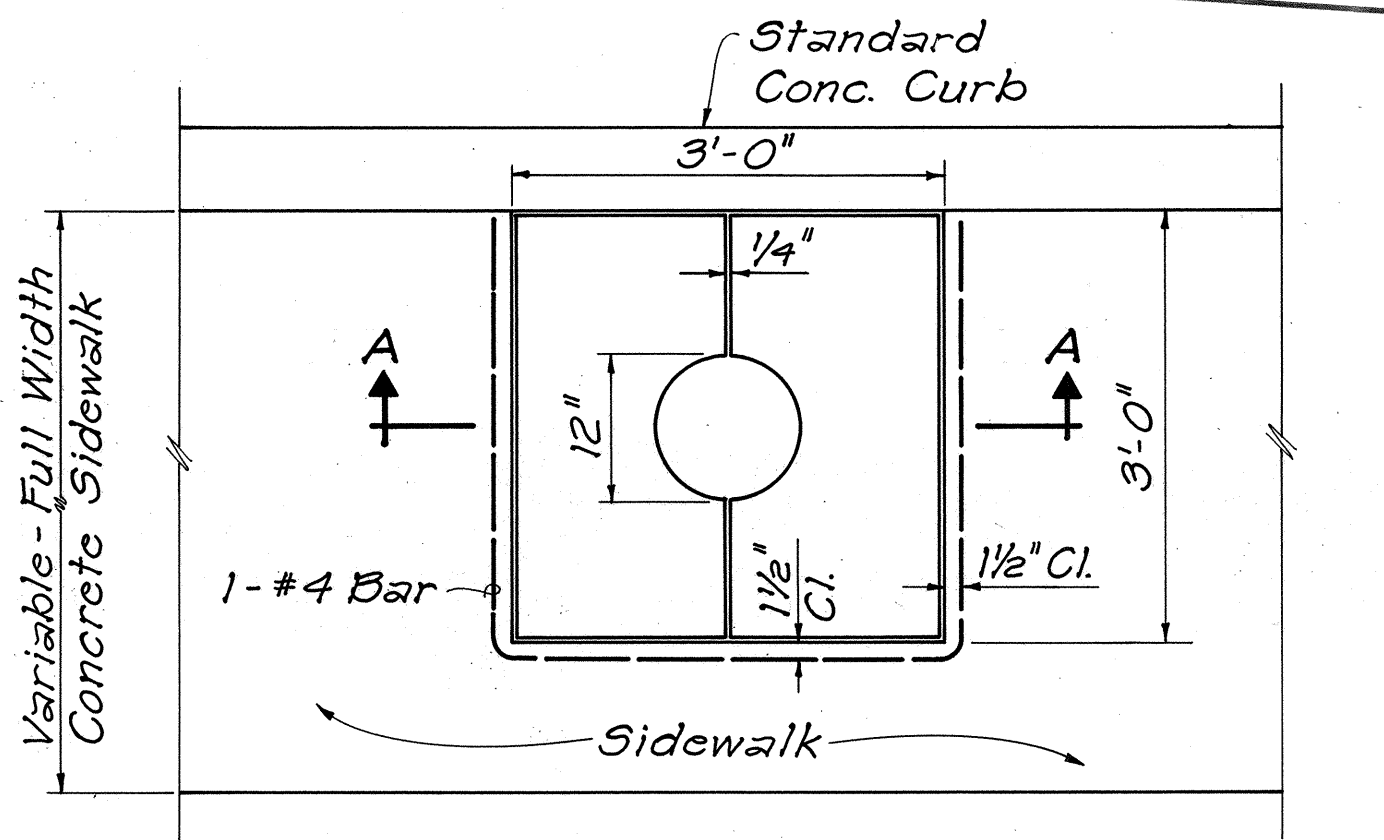
17

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(157)-24	1979	18	146

PLAN	DATE	BY	DATE	BY	DATE
SURVEYED					
PLOTTED					
NOTE BOOK					
NO.					



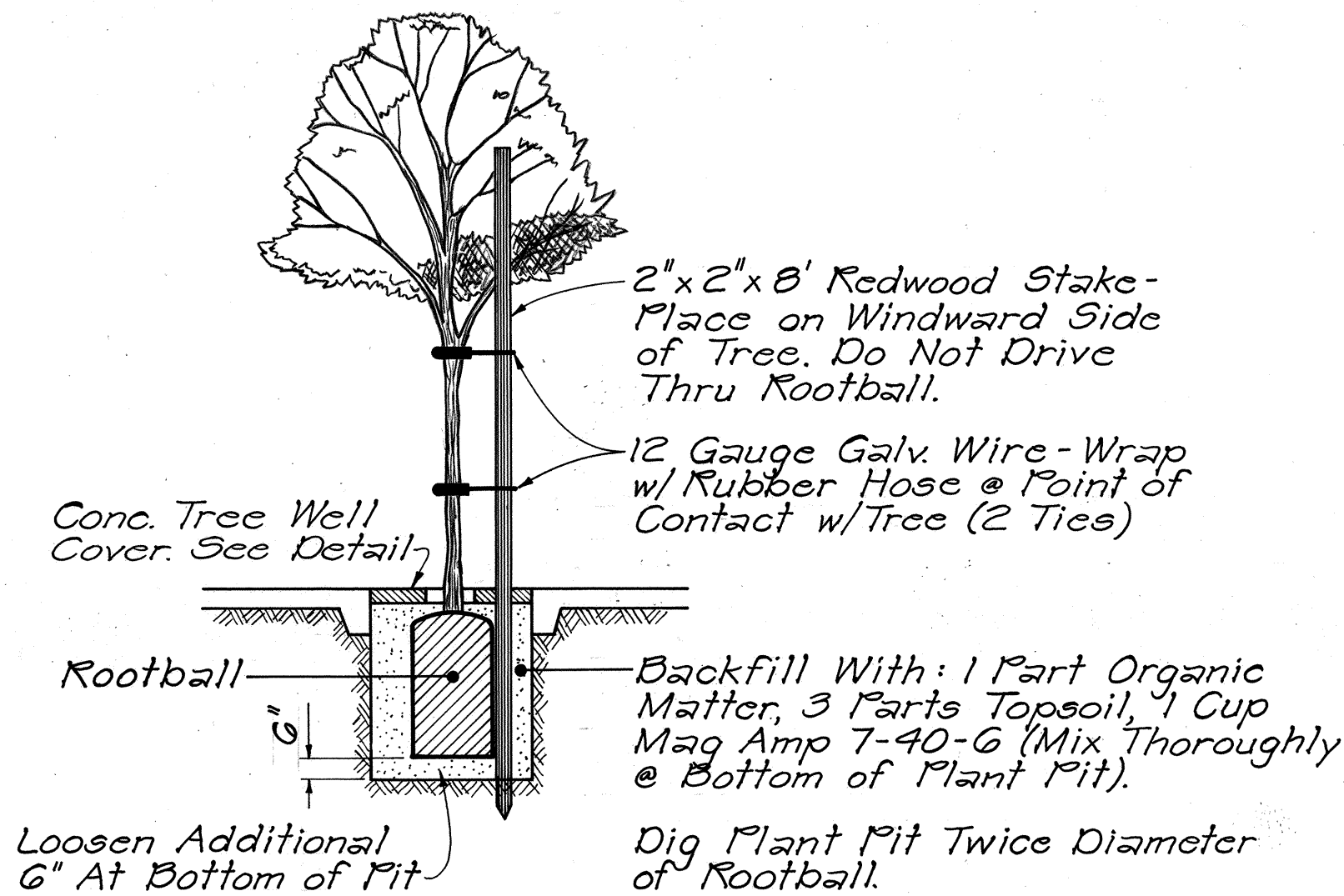
TREE PLANTING PLAN ~ KAPIOLANI BOULEVARD



TREE WELL WITH CONCRETE COVER
Scale: 3/4" = 1'-0"

PLANT LIST			
SYMBOL	QUANTITY	COMMON/BOTANIC NAME	SIZE
⊙	9 EACH	SATIN LEAF/CHRYSOPHYLLUM OLIVIFORME	5 GAL.

DELETE ALL TREE WELLS AND PLANTING CCO # 35



TREE PLANTING DETAIL
Not To Scale

GENERAL NOTES

- Contractor shall notify Department of Parks and Recreation, Beautification Administrator, Ph. 923-1847, at least 7 days in advance for the pre-maintenance and final inspections.
- Maintenance period for the street trees will be for 60 days. The 60 day maintenance period is applicable only to the street trees shown on this plan. See contract specifications for maintenance periods for other trees planted under this contract.

LEGEND:	
⊙	New Street Tree Delete CCO # 35
▨	New A.C. Pavement
⌒	Catch Basin
PP ⊙	Power Pole
⊕	Fire Hydrant

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Donald Y. H. Kim

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

STREET TREE PLANTING PLAN
KAPIOLANI BOULEVARD

INTERSTATE ROUTE HI-1
KAPIOLANI INTERCHANGE ON-RAMP
F.A.I. PROJ. NO. I-HI-1(157)-24

Scale: AS NOTED Date: 10-15-79

SHEET NO. 1 OF 1 SHEETS

Approved: Ramon Duran 3-27-79
Director, Department of Parks and Recreation
City & County of Honolulu