GENERAL NOTES

- The scope of work for this project includes removing and installing existing asphalt concrete pavement; installing accessible curb ramps; demolishing and installing drainage utilities; installation of water lines, and connecting to existing water lines; removing and installing new concrete median barriers; installing median and sidewalk landscaping; installing new planters; installing painting and exterior finish systems for existing walls; removing and installing pavement markings; relocating traffic signs; and applying BMPs.
- 2. The contractor's attention is directed to the following Sections of the Special Provisions: Subsection 107.21 - Contractor's Responsibility For Utility Property And Services; Subsection 108.03 - re: Incentive Provision; Subsection 108.08 - Liquidated Damages; and Section 645 — Traffic Control.
- 3. The Contractor shall survey and stake out the State Highway right-of-way and all improvements associated with the project.
- 4. At all times and especially at the end of each day's work, the Contractor shall remove all equipment and other obstructions to permit free and safe passage of public traffic.
- 5. The Contractor shall be required to attend weekly meetings with the State and other Contractors to discuss construction coordination issues. All costs associated with the coordination meetings shall be considered incidental to the various contract items, and will not be paid for separately.
- 6. The Contractor is advised that in addition to other contractors working in the same area, various utility companies or their contractors may be performing work within the project area. The Contractor shall coordinate all work with the utility companies. All costs associated with this coordination shall be considered incidental to the various contract items, and will not be paid for separately.
- The Contractor at his own expense, shall keep the project area and surrounding area from dust nuisance. The work shall be in conformance with the Air Pollution Control Standards and Regulations of the State Department of Health.
- The Contractor shall be solely responsible for the protection of adjacent properties, utilities, and existing structures from damage due to construction. Repairing any damage shall be at the Contractor's own expense, to the satisfaction of the Engineer.
- Removal and disposal of any debris shall be considered incidental to their respective bid items. The Contractor shall clean and remove any accumulation of aggregate along the roadside within 10 feet of the edge of pavement. This work shall be considered incidental to the various contract items and will not be paid for separately.

- 10. The existence and location of underground utilities, manholes, monuments and structures as shown on the plans are from the latest available data but the accuracy is not guaranteed. The encountering of other obstacles during the course of work is possible. The Contractor shall be held liable for any damages incurred to the existing facilities and/or improvements as a result of his operations.
- 11. No work or equipment shall be located or take place within 10' of any overhead wires of any HECO utility pole. No excavation shall take place within 5' of any HECO utility pole.
- 12. The Contractor will immediately report to the Engineer and utility companies damage discovered or caused by his work to any utilities.
- 13. Prior to pavement surfacing operations, the Contractor shall be responsible for locating, preserving and marking all utility and highway facilities that will require adjustments to the new finished pavement grade. Additionally, the Contractor shall submit to the Engineer a list of all items, including water, drainage, sewer, electrical, telephone and cable utilities to be adjusted to the new finished grade. This work shall be considered incidental to the various contract items.
- 14. All holes, depressions and wheel ruts shall be filled and compacted with asphalt concrete prior to resurfacing. This work shall be considered incidental to various contract items and will not be paid for separately.
- 15. Smooth riding connections shall be constructed at all limits of surfacing.
- 16. All saw cutting work shall be considered incidental to the various contract items.
- After completion of surfacing, the Contractor and the Engineer will test for, and determine ponding areas (i.e. low spots within the surfaced area). It shall be the responsibility of the Contractor to correct and resurface and/or repair all such ponding areas.
- 18. Blasting will not be allowed on this project.

	DIST. NO.		PROJ. NO.	YEAR	NO.	SHEET
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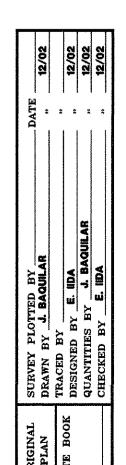
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★ PROFESSIONAL ENGINEER ★						
No. 4076-C	CONSTRUCTION NOTES — 1					
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711,	KAHEKILI HIGHWAY LANDSCAPING					
		Kulukeoe Street to Vicinity of Haiku Road				
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THIS WORK WAS PREPARED BY ME O UNDER MY SUPERVISION/	•		<u>Project No.</u>			
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C.O. 3

FED. ROAD DIST. NO.

FISCAL SHEET TOTAL YEAR NO. SHEETS

FED. AID PROJ. NO.



WATER NOTES

- 3 1. Unless otherwise specified, all materials and construction of water system facilities and appurtenances shall be in accordance with the City and County of Honolulu Board of Water Supply's "Water System Standards" dated 2002, the "Water System External Corrosion Control Standards", Volume 3, dated 1991, and all subsequent amendments and additions.
- 6 2. The State shall pay the applicable water system facilities and/or one-time service charge and for the meter which will be furnished by BWS and installed by the contractor when the lateral is installed.
- 3 3. The Contractor shall notify BWS Maintenance Unit Engineering, Construction Section in writing and submit five (5) sets of approved construction plans one week prior to commencing work on the water system.
 - 4. The Contractor shall be responsible for the protection of all water lines during construction. The Contractor shall be especially careful when excavating behind water lines, tees, and bends whenever there is a possibility of water line movement due to the removal of the supporting earth beyond the existing reaction blocks. The Contractor shall take whatever means necessary to protect the water lines, such as constructing special reaction blocks (with BWS approval) and/or modifying his construction method.
 - 5. The existence and location of underground utilities and structures as shown on the plans are from the latest available data but is not guaranteed as the accuracy of the encountering of other obstacles during the course of the work. The Contractor shall be responsible and pay for all damages to existing utilities. The Contractor shall not assume that where top utilities are shown, that none exist.
- 6. Re-approval shall be required if this project is not under construction within a period of two years.
- 7. Install 4 MIL thick, non-metallic, blue colored, 6 inches wide warning tape over centerline of the pipe and below the base course along the entire length of trench. Tape should be marked with "Caution Water Line Buried Below".
- The installation, chlorination and testing of the water main and facilities after the meter shall not be the responsibility of the Board of Water Supply.
- Board of Water Supply approval of these plans does not constitute a water commitment. Availability of water will be determined when building permit is presented to the department. Water commitment will depend upon the status of the water system at that time. Should water service be made available, the water commitment will be effective when the project receives an approved building permit from the building department. All water commitments will be canceled in the event the building permit is canceled.

WATER NOTES (CONT'D):

- 1 10. Contractor shall cut and plug all existing unused laterals at the main whether or not shown on the plans. Meter and valve boxes to be or already abandoned shall be demolished or removed and properly disposed of. The damaged area shall be repaired to an equal or better condition than the immediate area. All work shall be done at the expense of the Contractor.
- 1 11. All plans approved by the Board of Water Supply are based solely on the adequacy of the water supply.
- 1 12. The project shall be subject to the Board of Water Supply's Cross-Connection Control requirements prior to issuance of the Building Permit.
- 1 13. The backflow preventer device must be installed before meter is issued.
- 1 14. The Contractor shall furnish and install polyethylene wrap, 3 feet minimum at all taps (for DI pipe and copper lateral combination only) and plastic pipe (PE tubing) 3 feet long after meters for all service lateral connections.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	NH-083-1(49)	2003	C.O. 4	78

FOR ESTIMATING PURPOSES ONLY

DESCRIPTION OF V	VORK		ESTIMATE
3-"A" LAT. IRRIGATION 3/4" Meter Installation Chai		Three @ \$267.00 (87+180)	\$801.00
WATER SYSTEM FACILITY (MIN 20 FU) 20 FU © \$620.8		, STORAGE & SOURCE) Three @ \$12,417.00	\$37,251.60
*CREDIT S/N S/N			N/A
	FIRE SERVICE Meter Installation Charge One—time Charge		N/A N/A N/A
		TOTAL	\$38,052.00

*CREDITS WILL BE DETERMINED WHEN THE BUILDING PERMIT APPLICATION IS SUBMITTED FOR BWS REVIEW AND APPROVAL

THIS ESTIMATE IS SUBJECT TO CHANGE. A FORMAL WRITTEN QUOTATION MAY BE OBTAINED AND ALL PAYMENTS FOR THE CHARGES SHOWN ON THE QUOTATION MADE WITHIN 30 DAYS AFTER THE CONSTRUCTION PLAN IS APPROVED BY BWS. IF PAYMENTS ARE NOT RECEIVED WITHIN THE 30 DAY PERIOD. THE PROJECT WILL BE SUBJECT TO THE PREVAILING RATES.

[6] REAPPROVED: (TIME LAPSE)

1/15/08 PRINCIPAL EXECUTIVE, MAINTENANCE UNIT, BWS

APPROVED:

Speed W Karlin PRINCIPAL EXECUTIVE, MAINTENANCE UNIT, BWS



This work was prepared by me ar under my supervision and construction of this project will be under my observation. (Observation of construction as defined in Chapter 16—115, Subchapter 1 Definitions of the Hawaii Administrative Rules, "Professional Engineers, Architects, Surveyors, and Landscape Architects.") dwarf Air 4/30/2004

NOTE: Contractor to check and verify dimensions at job before proceeding with work.

DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION CONSTRUCTION NOTES - 2

09/30/03

05/07/03

DATE

KAHEKILI HIGHWAY LANDSCAPING Kulukeoe Street to Vicinity of Haiku Road Federal Aid Project No. NH-083-1(49) Scale: As Noted Date: Apr. 2002

STATE OF HAWAII

12/14/07 6 Reapproved (Time Lapse)

01/08/04 3 Revised Water Notes 1 and 6.

Deleted Water Notes

Revised Estimate; Note deleted

2,3,4,9,10,12,13,14, and 19.

Added BWS Cost Estimate Table

REVISIONS

Revised and Added to Notes

Renumbered Water Notes.

1 Revised and Added to Notes

SHEET No. 2 OF 5 SHEETS

12/02 12/02 12/02 SURVEY PLOTTED BY
DRAWN BY J. BAQUILAR
TRACED BY
DRSIGNED BY E. HDA
QUANTITIES BY J. BAQUILAR
CHECKED BY E. HDA

SEWER NOTES

- 1. All sewer construction shall be performed in accordance with the City's standard specifications, Sept. 1986, the Department of Public Works standard details, Sept. 1984, current city practices and Revised Ordinances of Honolulu, 1990 as amended, and the Design Standards of the Department of Wastewater Management Vol. 1, July
- 1 2. The contractor shall notify the Inspection Section, Wastewater Branch, DDC, at 768-8788 or 768-8770 to arrange for inspection services and submit four (4) sets of approved construction plans seven (7) days prior to commencement of sewer work. The contractor shall pay for all inspection costs.
- 3. Trees in the road right-of-way shall be situated a minimum of 6'-0" from the city's sewer lines.
- 4. The underground pipes, cables or ductlines known to exist by the engineer from his research of records are indicated on the plans. The contractor shall verify the location and depth of the facilities, including and affecting sewer lines, in the presence of the Wastewater inspector and exercise proper care in excavating the area. The contractor shall be responsible and shall pay for all damaged utilities.
- 5. The contractor shall be responsible for maintaining continuous service to all affected areas during construction.
- 6. The contractor shall be responsible for any sewage spills caused during construction. The contractor shall notify the State Department of Health and utilize appropriate sampling and analyzing procedures. The contractor shall be responsible for all public notifications and press releases.

CURB RAMP AND SIDEWALK NOTES

- 1. These typical details are intended as curb ramp guidelines for design and construction.
- 2. A 2% maximum cross slope shall be maintained in the direction of pedestrian traffic.
- 3. Subject to field conditions, the Engineer shall determine the final location of curb ramps.
- 4. All pullboxes shall be installed away from the curb ramp and within the sidewalk/unpaved area to the maximum extend possible.
- 5. Where necessary, existing pullboxes, handholes, manholes, etc., shall be adjusted to match curb ramp grade. Adjustments shall not be paid for separately but shall be considered incidental to the various curb ramp items unless indicated otherwise.
- 6. Transitions from ramps to gutters and roadways shall be
- 7. Curb ramps and sidewalks shall be constructed to eliminate ponding to the maximum extent feasible.
- 8. The maximum slopes of adjoining gutters or road surface immediately fronting the curb ramp shall not exceed 5% for Type A and D ramps and 8.33% for Type B, C, and E ramps. The counterslope may be exceeded when the change of grade does not exceed 13% (11% preferred) over a distance of 2 ft. Exceeding the 13% (11% preferred) change in grade will cause a person in a wheelchair to tip forward and/or fall backward.
- 9. There shall be a 30"x48" level ground surface (2% max. cross slope, both directions) for a forward or side approach, as appropriate, to a pedestrian push button.
- 10. Construction joints are required to join curb ramps with sidewalks.
- 11. Unless otherwise noted, new gutters are required as shown.
- 12. All curb ramps shall be reinforced with 6x6 W1.4/W1.4 welded wire fabric.
- 13. Surface of sidewalks and curb ramps shall be firm, stable and slip-resistant. This includes the surfaces of pullboxes, valve covers, manhole covers, etc.
- 14. Base course material is required for curb ramps, sidewalks, and gutters.
- 15. All sidewalks shall provide a minimum clear width of 3'-0" (excluding curb) for pedestrian circulation. If this cannot be met, a minimum 32-inch clear width is allowed for a distance of 24 inches.
- 16. Passing spaces along new sidewalks with 5' clear width or less shall be provided at maximum 200' intervals as required by ADA guidelines. The passing area shall be a minimum 5' wide by 5' long as feasible.

- If possible, install utility poles, fire hydrants, light poles, sign posts, pullboxes, etc. off sidewalk but within the right-of-way.
- 18. Objects protruding from utility poles and walls adjacent to the sidewalks (i.e. mounted fire hydrants, telephones, meters on poles, etc.) shall be mounted to meet the current American with Disabilities Act Accessibility Guidelines (ADAAG) and will be subject to Engineer's approval.
- 19. If a curb ramp is not constructed according to the plans, the Contractor shall reconstruct the curb ramp at no cost to the State. Construction tolerance for Portland Cement Concrete shall be based on 1/4 inch per 10 ft. $(\pm 0.2\%)$. Remedial measures will not be accepted.
- 20. Additional information is available from:
 - a) American with Disabilities Act Guidelines (ADAAG), Jan. 1998, The Access Board.
 - b) Accessible Rights-of-Way: A Design Guide, Nov. 1999, The Access Board.
 - c) Designing Sidewalks and Trails for Access Part 1, July 1999, FHWA
 - d) Designing Sidewalks and Trails for Access Part 2, Sept. 2001, FHWA

REAPPROVED: (TIME LAPSE)

Wagnelalamena CHIEF, WASTEWATER BRANCH, DPP

1/14/08

APPROVED:

Denny 11. Nichimura
CHIEF, WASTEWATER BRANCH, DPP NJ

1/20/04



This work was prepared by me or under my supervision and construction of this project will be under my observation. (Observation of construction as defined in Chapter 16–115, Subchapter 1 Definitions of the Hawaii Administrative Rules, "Professional Engineers, Architects Surveyors, and Landscape Architects.")

CONSTRUCTION NOTES - 3

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

Changed phone numbers

09/11/07 6 Reapproved (Time Lapse);

09/30/03 | 1 Revised and Added to Notes

KAHEKILI HIGHWAY LANDSCAPING <u>Kulukeoe Street to Vicinity of Haiku Road</u> Federal Aid Project No. NH-083-1(49) Scale: As Noted Date: Apr. 2002

SHEET TOTAL NO. SHEETS

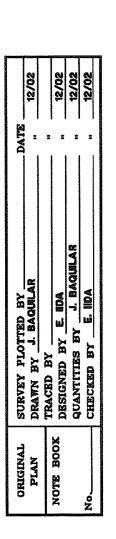
2003 C.O. 5 78

FISCAL YEAR

FED. AID PROJ. NO.

HAWAII NH-083-1(49)

FED. ROAD DIST. NO.



dend Llis 4/30/2004 NOTE: Contractor to check and verify dimensions at job before proceeding with work. SHEET No. 3 OF 5 SHEETS

WATER POLLUTION AND EROSION CONTROL NOTES:

- A. GENERAL:
- 1. The Contractor is reminded of the requirements of Section 209 - Water Pollution and Erosion Control, in the "Hawaii Standard Specifications for Road, Bridge, and Public Works Construction". Section 209 describes but is not limited to: submittal requirements; scheduling of a water pollution and erosion control conference with the Engineer; construction requirements; method of measurement; and basis of payment.
- The Contractor shall follow the guidelines in the "Best Management Manual for Construction Sites in Honolulu", dated May 1999 in developing, installing and maintaining the Best Management Practices (BMP) for the project.
- The Engineer may assess liquidated damages of up to \$25,000 for non-compliance of each BMP requirement and each requirement stated in Section 209, for every day of non-compliance. There is no maximum limit on the amount assessed per day.
- The Engineer will deduct the cost from the progress payment for all citations received by the Department for non-compliance, or the Contractor shall reimburse the State for the full amount of the outstanding cost incurred by the State.
- B. WASTE DISPOSAL:
- Waste Materials

All waste materials shall be collected and stored in a securely lidded metal dumpster. The dumpster shall meet all local and State solid waste management regulations. All trash and construction debris from the site shall be deposited in the dumpster. The dumpster shall be emptied a minimum of twice per week or as often as deemed necessary. No construction waste materials shall be buried onsite. The Contractor's supervisory personnel shall be instructed regarding the correct procedure for waste disposal. Notices stating these practices shall be posted in the office trailer and the Contractor shall be responsible for seeing the that procedures are followed.

Hazardous Waste

All hazardous waste materials shall be disposed of in the manner specified by local or State regulations or by the manufacturer. The Contractor's site personnel shall be instructed in these practices and shall be responsible for seeing that these practices are followed.

Sanitary Waste

All sanitary waste shall be collected from the portable units a minimum of once per week, or as required.

- C. EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES:
- 1. All control measures shall be inspected at least once each week and following any rainfall event of 0.5 inches or greater.
- 2. All measures shall be maintained in good working order. If repair is necessary, it shall be initiated within 24 hours after the inspection.
- Built-up sediment shall be removed from silt fence when it has reached one-third the height of the fence.
- 4. Silt screen or fence shall be inspected for depth of sediment, tears, to verify that the fabric is securely attached to the fence posts or concrete slab and to verify that the fence posts are firmly in the ground.
- 5. Temporary and permanent seeding and planting shall be inspected for bare spots, washouts and healthy growth.
- 6. A maintenance inspection report shall be made promptly after each inspection by the contractor.
- 7. The Contractor shall select a minimum of three personnel who shall be responsible for inspection, maintenance and repair activities and filling out the inspection and maintenance report.
- 8. Personnel selected for the inspection and maintenance responsibilities shall receive training from the Contractor. They shall be trained in all the inspection and maintenance practices necessary for keeping the erosion and sediment controls used onsite in good working order.
- D. GOOD HOUSEKEEPING BEST MANAGEMENT PRACTICES
- Materials Pollution Prevention Plan
 - a. Applicable materials or substances listed below are expected to be present onsite during construction. Other materials and substance not listed below shall be added to the inventory.

Concrete Detergents Paints (enamel and latex) Metal Studs Masonry Block

Fertilizers Petroleum Based Products Cleaning Solvents Wood

- b. Material Management Practices shall be used to reduce the risk of spills or other accidental exposure of materials and substances to storm water runoff. An effort shall be made to store only enough product as is required to do the job.
- c. All materials stored onsite shall be stored in a neat, orderly manner in their appropriate containers and if possible under a roof or other enclosure.

- FED. ROAD DIST. NO. FISCAL SHEET TOTAL YEAR NO. SHEETS FED. AID PROJ. NO. 200**3** HAWAII NH-083-1(49) 6
- d. Products shall be kept in their original containers with the original manufacturer's label.
- Substances shall not be mixed with one another unless recommended by the manufacturer.
- Whenever possible, a product shall be used up completely before disposing of the container.
- Manufacturer's recommendations for proper use and disposal shall be followed.
- h. The Contractor shall conduct a daily inspection to ensure proper use and disposal of materials onsite.
- 2. Hazardous Material Pollution Prevention Plan
 - a. Products shall be kept in original containers unless they are not resealable.
 - b. Original labels and materials safety data sheets (MSDS) shall be retained.
 - c. Surplus products shall be disposed of according to manufacturer's instructions or local and State recommended methods.



STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

CONSTRUCTION NOTES - 4

KAHEKILI HIGHWAY LANDSCAPING Kulukeoe Street to Vicinity of Haiku Road

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Federal Aid Project No. NH-083-1(49) Date: Apr. 2002 Scale: As Noted

SHEET No. 4 OF 5 SHEETS

WATER POLLUTION AND EROSION CONTROL NOTES - CONT.

- D. GOOD HOUSEKEEPING BEST MANAGEMENT PRACTICES:
- Onsite and Offsite Product Specific Plan
 - A. The following product specific practices shall be followed.
 - 1) Petroleum Based Product: All onsite vehicles shall be monitored for leaks and receive regular preventive maintenance to reduce the chance of leakage. Petroleum products shall be stored in tightly sealed containers which are clearly labeled. Any asphalt substances used onsite shall be applied according to the manufacturer's recommendation.
 - Fertilizers:

Fertilizers used shall be applied only in the minimum amounts recommended by the manufacturer. Once applied, fertilizer shall be worked into the soil to limit exposure to storm water. Storage shall be in a covered shed. The contents of any partially used bags of fertilizer shall be transferred to a sealable plastic bin to avoid spills.

Paints:

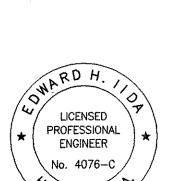
All containers shall be tightly sealed and stored when not required for use. Excess paint shall not be discharged to the highway drainage system but shall be properly disposed of according to manufacturer's instruction or State and local regulations.

- 4) Concrete Trucks: Concrete trucks shall be allowed to wash out or drum wash water only at a designated site. Water shall not be discharged in the highway drainage system or waters of the United States. The Contractor shall contact Drinking Water Branch, Department of Health at 586-4258 to receive permission to designate a disposal site. The Contractor shall clean disposal site as required or as requested by the Owner's representative.
- B. Vehicle Tracking:
 - 1) A stabilized construction entrance shall be provided to help reduce vehicle tracking of sediments.
 - 2) The paved street adjacent to the site entrance shall be cleaned daily or as required to remove and excess mud, cold planed materials, dirt, or rock tracked from the site.
 - Dump trucks hauling materials from the construction site shall be covered with a tarpaulin.

- 4. Spill Control Plan
 - a. A spill prevention plan shall be posted to include measures to prevent and clean up each spill.
 - b. The Contractor shall be the spill prevention and cleanup coordinator. The Contractor shall designate at least three site personnel who shall receive spill prevention and cleanup training. These individuals shall each become responsible for a particular phase of prevention and cleanup. The names of responsible spill personnel shall be posted in the materials storage area and in the office trailer onsite.
 - c. Manufacturer's recommended method for spill cleanup shall be clearly posted and site personnel shall be made aware of the procedures and the location of the information and cleanup supplies.
 - d. Materials and equipment necessary for spill cleanup shall be kept in the material storage area onsite.
 - e. All spills shall be cleaned up immediately after discovery.
 - f. The spill area shall be kept well ventilated and personnel shall wear appropriate protective clothing to prevent injury from contact with a hazardous substance.
 - Spills or toxic hazardous material shall be reported to the appropriate State or local government agency, regardless of the size.

E. PERMIT REQUIREMENTS:

- 1. The Contractor shall comply with all applicable State and Federal Permit conditions. Permits may include but are not limited to the following:
 - 1. NPDES Permit for Construction Activities
 - 2. Water Quality Certification



STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

CONSTRUCTION NOTES - 5

KAHEKILI HIGHWAY LANDSCAPING Kulukeoe Street to Vicinity of Haiku Road Federal Aid Project No. NH-083-1(49)

Scale: As Noted

Date: Apr. 2002 SHEET No. 5 OF 5 SHEETS

12/02 12/02 12/02 SURVEY PLOTTED I
DRAWN BY J. BAQU
TRACED BY E. III
QUANTITIES BY J. ORIGINAL PLAN NOTE BOOK

AWAII, U.S.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

MITSUNAGA & ASSOCIATES

FISCAL SHEET TOTAL YEAR NO. SHEETS

200**3**

FED. AID PROJ. NO.

NH-083-1(49)

FED. ROAD DIST. NO.

HAWAII