- The Controctor is reminded of the requirements of Section 209 Water Pollution and Erosion Control, in the Special Provisions. Section 209 describes but is not limited to: wouldn't 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 Practices Manual for Construction Sites in Honolulu", dated May 1999 in developing, installing and maintaining the Best Management Practices (BMP) for the project.
- 3. 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

B. WASTE DISPOSAL:

- mosts Moterials 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 empited a minimum of twice per week or as often as is deemed necessary. No construction waste moterials 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 presented in the object of the contractor shall be responsible for seeing that these procedures are followed.

2. Hazardous Waste

All inazordous 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.

3. 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:

- All control measures shall be inspected at least once each week and following any rainfall event of 0.5 inches or greater.
- All measures shall be maintained in good working order. If repair is necessary, it shall be initiated within 24 hours after the inspection
- 3. Built-up sediment shall be removed from silt fence when it has reached one-third the height of the fence.
- 4. Sit 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. The bottom of the silt screen shall be inspected and verified that it is buried a minimum of 6 inches
- 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
- The Contractor shall select a minimum of three personnel who shall be responsible for inspections, maintenance and repair activities and filling out the inspection and maintenance report.
- 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.

). 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 substances not listed below shall be added to the inventory.

Concrete Detergents Paints (enamel and latex) Metal Studs

SURVEY PLOTTE BRAIN BY TRACED BY DESIGNED BY QUANTITIES BY CHECKED BY

2002

Fri. 24 May

Fertilizers Petroleum Based Products Cleaning Solvents Wood Masonry Block

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.

d. Products shall be kept in their original containers with the original

- e. Substances shall not be mixed with one another unless recommended by the
- f. Whenever possible, a product shall be used up completely before disposing of the
- a 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.

D. GOOD HOUSEKEEPING BEST MANAGEMENT PRACTICES: -Continued

- a. Products shall be kept in original containers unless they are not resealable.
- b. Original labels and material safety data sheets (MSDS) shall be retained.
- c. Surplus products shall be disposed of according to manufacturers' instructions
- or local and State recommended methods.
- 3. Onsite and Offsite Product Specific Plan a. The following product specific practices shall be followed onsite:

 - 1) Petroleum Based Products: 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 labeted. Any saphalt substances used onsite shall be applied according to the manufacturer's
 - 2) Fertilizers:

restructers:
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 portially used bags of fertilizer shall be transferred to a sealable plastic bin to void splish.

3) Points:
All containers shall be tightly sealed and stored when not required for use.
Excess point shall not be discharged to the highway drainage system but shall be properly disposed of according to manufacturers' instructions or State and local regulations.

4) Concrete Trucks:

Concrete trucks shall be allowed to each out or discharge drum wish water only at a designated site. Water and in a bed discharged in the highway drainage water than the contract of the contractor shall contact Drinking Water Branch, Department of Health at 586–458 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. Offsite Vehicle Tracking:
- b. Orisite Venuce Induction.
 A stabilized construction entrance shall be provided to help reduce vehicle tracking of sediments. The paved street adjacent to the site entrance shall be cleaned doily or as required to remove any excess mud, cold planed materials, dirt or rock tracked from the site. Dump trucks houlling material from the construction site shall be covered with a tarpoulin.
- 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 individual shall each become responsible for a particular phase of prevention and cleanup. The names of responsible spill personnel shall be posted in the material storage area and in the office trailer.
- c. Manufacturers' recommended methods 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
- 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.
- g. Spills of toxic hazardous material shall be reported to the appropriate State or local government agency, regardless of the size.

PERMIT REQUIREMENTS:

1. If a National Pollutant Discharge Elimination System (NPDES) Permit is required for Construction Activities, the Contractor shall submit to the Engineer four sets of the Water Pollution and Errosino Control Submittals as detailed in Subsection 209.04 of the specifications.

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

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION

WATER POLLUTION & EROSION CONTROL NOTES TRAFFIC OPERATIONAL IMPROVEMENTS

AT VARIOUS LOCATIONS
PUUNENE AVENUE AND KAAHUMANU AVENUE

Project No. HWY-M-04-00

Scale: AS NOTED Date: Apr. 2002 SHEET No. 1 OF 1 SHEETS