A. GENERAL:

The Controtor is reminded of the requirements of Section 209 — Water Poliution and Erosion Control, in the Special Provisions. Section 209 describes but is not limited to: submittal requirements; scheduling of a water poliution and erosion control conference with the Engineer; construction requirements; method of measurement; and basis of navment

- 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.
- 4. The Engineer will deduct the cost from the progress payment for all citations received by the Department for non-compliance, or the Contractor shall relimburse the State for the full amount of the outstanding cost incurred by the

B. WASTE DISPOSAL:

. Waste Materials and ibe collected and stored in a securely lidded metal dumpster. The dumpster shall meet all local and State solid waste management regulations. All treas and construction desirs from the sits said be deposited to regulations. All treas and construction desirs from the sits said be deposited week or as often as is deemed necessory. No construction waste materials shall be buried onsite. The Controctor's supervisory personnel shall be instructed regarding the correct procedure for waste disposal. Notices stating these proclices shall be posted in the office torier and the Controctor shall be responsible for seeing that these procedures are followed.

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.

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.
- Built-up sediment shall be removed from silt fence when it has reached one-third the height of the fence.
- the neight of the fence. Still 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 slit screen shall be inspected and verified that it is buried a minimum of 6 inches below the existing ground.
- 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
- 7. 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.
- 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:

a. Applicable materials or substances listed below are expected to be present onsite during construction. Other materials and substances not listed below sho added to the inventory.

Concrete Detergents

SURVEY PLOTTER
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY

Paints (enamel and latex)

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.
- d. Products shall be kept in their original containers with the original manufacturer's label.
- e. Substances shall not be mixed with one another unless recommended by the
- Whenever possible, a product shall be used up completely before disposing of the
- g. Manufacturer's recommendations for proper use and disposal shall be followed.
- The Contractor shall conduct a daily inspection to ensure proper use and sposal of materials onsite.

D. GOOD HOUSEKEEPING BEST MANAGEMENT PRACTICES: —Continued 2. Hazardous Material Pollution Prevention Plan

- . Hazardous Material Pollution Prevention Plan
 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.
- 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: retroleum based products:
 All ansite wellas shall be monitored for leaks and receive regular preventive
 maintenance to reduce the chance of leakage. Petroleum products shall be
 stored in tighty sealed containers which are clearly lobeled. Any asphalt
 substances used onsite shall be applied according to the manufacturer's

2) 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 made any.

30 overa spins.
Points:
All containers shall be tightly sepied 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:

Controle funds.

Occurred funds to state of the control of the con

Offsite Vehicle Tracking:

b. Unster ventice indicating. 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 dolly or as required to remove any excess mud, cold plened materials, dirt or rock tracked from the site. Dump trucks haulling material from the construction site shall be covered with a torpoulin.

a. A spill prevention plan shall be posted to include measures to prevent and clean up each spill.

- The Contractor shall be the spill prevention and cleanup coordinator. The Contractor shall designate at less three sits personnel who shall reache spin personnel may be contractor shall designate at less three sits personnel who shall reache sponsible for a particular phase of prevention and deanup. The names of responsible spin personnel shall be posted in the material storage area and in the office trailer ansite.
- 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 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 of toxic hazardous material shall be reported to the appropriate State or all government agency, regardless of the size.

- E_ 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 Erosion 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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PROJ. NO.

FISCAL YEAR SHEET NO.

STATE





STATE OF HAWAII DEPARTMENT OF TRANSPORTATION

WATER POLLUTION & EROSION CONTROL NOTES

TRAFFIC OPERATIONAL IMPROVEMENTS AT VARIOUS LOCATIONS
HONOAPIILANI HIGHWAY

AT WAIKO ROAD Project No. HWY-M-04-00

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

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