

WATER POLLUTION AND EROSION CONTROL NOTES:

| FED. ROAD<br>DIST. NO. | STATE | FEDERAL AID<br>PROJ. NO. | FISCAL<br>YEAR | SHEET<br>NO. | TOTAL<br>SHEETS |
|------------------------|-------|--------------------------|----------------|--------------|-----------------|
| HAWAII                 | HAW.  | STP-0540(2)              | 2004           | 4            | 23              |

A. GENERAL:

- 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 Mangement Practices 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.
- Where work is conducted within the State Highway right of way, the Contractor shall be responsible for maintaining grassed shoulder areas wherever BMP measures have bee installed by the Contractor where it prevents maintenance vehicles and workers from entering shoulder areas for mowing, litter pickup work, and other maintenance tasks. Contractor shall conduct the maintenance work on a reasonable timetable, or when notified by the Kauai District Engineer, Highways Division. BMP measures shall not be removed unless Contractor obtains approval from the State Department of Health.

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 is 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 that these 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:

- 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.

- 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.
- Temporary and permanent seeding and planting shall be inspected for bare spots, washouts and healthy growth.
- A maintenance inspection report shall be made promptly after each inspection by the Contractor.
- 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.

D. GOOD HOUSEKEEPING BEST MANAGEMENT PRACTICES:

- Materials Pollution Prevention Plan
  - 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                  | Fertilizers              |
| Detergents                | Petroleum Based Products |
| Paints (enamel and latex) | Cleaning Solvents        |
| Metal Studs               | Wood                     |
| Tar                       | Masonry Block            |
  - 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.
  - 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.
  - 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.
  - The Contractor shall conduct a daily inspection to ensure proper use and disposal of materials onsite.

2. Hazardous Material Pollution Prevention Plan

- Products shall be kept in original containers unless they are not resealable.
- 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

- The following product specific practices shall be followed onsite:
  - 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 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 manufacturers' instructions or State and local regulations.
  - 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.

|                   |                |
|-------------------|----------------|
| DATE              | June 2003      |
| SURVEY PLOTTED BY |                |
| DRAWN BY          |                |
| DESIGNED BY       | J. L. LUTHER   |
| CHECKED BY        |                |
| ORIGINAL PLAN     |                |
| NOTE BOOK         | Yes [initials] |
| 21/11/2003        |                |

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| STATE OF HAWAII<br>DEPARTMENT OF TRANSPORTATION<br>HIGHWAYS DIVISION   |
| <b>WATER POLLUTION &amp; EROSION CONTROL NOTES</b>   |
| <b>HALEWILI ROAD</b><br><b>Guardrail and Shoulder Improvements</b><br><b>Federal Aid Project No. STP-0540(2)</b> |
| Date: June 2003  |
| SHEET No. 1 OF 2 SHEETS  |

WATER POLLUTION AND EROSION CONTROL NOTES: -Cont.

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D. GOOD HOUSEKEEPING BEST MANAGEMENT PRACTICES: -Cont.

b. Offsite Vehicle Tracking:

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 daily or as required to remove any excess mud, cold planed materials, dirt or rock tracked from the site. Dump trucks hauling material 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 material storage area and in the office trailer onsite.

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.

g. Spills of toxic hazardous material shall be reported to the appropriate State or local government agency, regardless of the size.

E. PERMIT REQUIREMENTS:

1. An NPDES permit is required for this project and will be obtained by the State. The Contractor shall submit to the Engineer four sets of Water Pollution and Erosion Control Submittals as detailed in Subsection 209.04 of the specifications. Forty-five days prior to the start of Construction, the Contractor shall submit a list of Best Management Practices (BMP) that will be followed during the course of construction. It shall be the Contractor's responsibility to insure there is no discharge of contaminants to the storm drain system, to any stream, or into ground water. BMPs shall address storage and handling of construction materials and waste materials; tools and equipment including servicing; and any other concerns unique to the project. Cost for preparing, submitting and adhering to the BMPs shall be considered incidental to the various items of work.

2. If a NPDES Permit for Construction Dewatering is required, the Contractor shall be responsible to obtain the Permit from the Department of Health, Clean Water Branch.

3. It shall be the Contractor's responsibility to keep noise generated by construction activities below the maximum permissible allowed for any particular time and location. If maximums will be exceeded, the Contractor shall apply for a Community Noise Variance from the State Department of Health.

4. The Contractor shall comply with all applicable State and Federal Permit conditions. Permits may include but are not limited to the following:

- a. Community Noise Variance
- b. NPDES Permit for Construction Dewatering
- c. Water Quality Certification
- d. Section 404 Army Corps of Engineer Permit

|                  |                   |      |
|------------------|-------------------|------|
| ORIGINAL<br>PLAN | SURVEY PLOTTED BY | DATE |
| NOTED BY         | DRAWN BY          | DATE |
| CHECKED BY       | TRACED BY         | DATE |
|                  | QUANTITIES BY     | DATE |
|                  | CHECKED BY        | DATE |

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

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HALEWILI ROAD  
Guardrail and Shoulder Improvements  
Federal Aid Project No. STP-0540(2)

Date: June 2003