W,	ATER POLLUTION AND EROSION CONTROL NO
A.	GENERAL:
1.	See Section 209 - Water Pollution and Erosion Control. Se is not limited to: submittal requirements; scheduling of a wa control conference with the Engineer; construction requirement measurement; and basis of payment.
2.	Effective October 1, 2008, follow the guidelines in the "Cons Practices Field Manual", dated January 2008 in developing, the Best Management Practices (BMP) for the project.
3.	Follow the guidelines in the Honolulu's City & County "Rules Erosion Standards and Guidelines" along with applicable So for projects on Maui, Molokai, Kauai, and Hawaii.
4.	The Engineer may assess liquidated damages of up to \$27, of each BMP requirement and each requirement stated in S day of non-compliance. There is no maximum limit on the an
5.	The Engineer will deduct the cost from the progress payme received by the Department for non-compliance, or the Contr reimburse the State for the full amount of the outstanding State.
6.	For projects that require an NPDES Permit from the Depart a rain gage prior to any field work including the installation management practices. The rain gage shall have a tolerance rainfall, and have an opening of at least one-inch in diameter on the project site in an area that will not deter rainfall for opening. The rain gage installation shall be stable and plum work until the rain gage is installed and site-specific best are in-place.
В.	WASTE DISPOSAL:
1.	Waste Materials
	Collect and store all waste materials in a securely lidded m dumpster shall meet all local and State solid waste manager Deposit all trash and construction debris from the site in the dumpster a minimum of twice per week or as often as is d bury construction waste materials onsite. The Contractor's shall be instructed regarding the correct procedure for was notices stating these practices in the office trailer and the responsible for seeing that these procedures are followed.
2.	Hazardous Waste
	Dispose all hazardous waste materials in the manner specit regulations and by the manufacturer. The Contractor's site instructed in these practices and shall be responsible for practices are followed.
З.	Sanitary Waste
	Collect all sanitary waste from the portable units a minimum or as required.
С.	EROSION AND SEDIMENT CONTROL INSPECTION AND MAI
1.	Inspect all control measures at least once each week and w rainfall event of 0.5 inches or greater within a 24 hour per
2.	Maintain all measures in good working order. If repair is n initiated within 24 hours after the inspection.

3. Remove built-up sediment from silt fence when it has reached one-third the height of the fence.

ORIGINAL	L SURVEY PLOTTED BY DATE
PLAN	DRAWN BY
NOTE BOOK	_
Jdx.x	QUANTITIES BY
N. X.dgn	CHECKED BY
'H3RF/RFU7B/PL	'H3RF/RFU7B/PLANS/Pollution Control Notes 01 09-03-08.dgn

OTES:

ection 209 describes but ater pollution and erosion nents; method of

struction Best Management installing and maintaining

Relating to Soil oil Erosion Guidelines

500 for non-compliance Section 209, for every mount assessed per day.

ent for all citations ractor shall cost incurred by the

rtment of Health, install on of any site-specific best of at least 0.05 inches of ter. Install the rain gage from entering the gage nbed. Do not begin field management practices

metal dumpster. The ement regulations. the dumpster. Empty the leemed necessary. Do not supervisory personnel nste disposal. Post Contractor shall be

fied by local or State personnel shall be seeing that these

m of once per week,

INTENANCE PRACTICES:

within 24 hours of any riod.

necessary, it shall be

- 4. Inspect silt screen or fence 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. Inspect and verify the bottom of the silt screen is buried a minimum of 6 inches below the existing ground.
- 5. Inspect temporary and permanent seeding and planting for bare spots, washouts and healthy growth.
- 6. Make a maintenance inspection report promptly after each inspection. Submit a copy to the Engineer no later than one week from the date of the inspection.
- 7. Provide a stabilized construction entrance to reduce vehicle tracking of sediments. Include stabilized construction entrance in the Water Pollution, Dust, and Erosion Control submittals. Minimum length should be 50 feet. Minimum width should be 30 feet. Minimum depth should be 6 inches and underlain with geo-textile fabric. Clean the paved street adjacent to the site entrance daily or as required to remove any excess mud, cold planed materials, dirt or rock tracked from the site. Cover dump trucks hauling material from the construction site with a tarpaulin.
- 8. Include designated Concrete Washout Area(s) in the Water Pollution, Dust, and Erosion Control submittals.
- 9. Submit the name of a specific individual designated responsible for inspections, maintenance and repair activities and filling out the inspection and maintenance report.
- 10. 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.
- 11. Contain, remove, and dispose slurry generated from saw cutting of pavement in accordance with approved BMP practices. Payment for confinement, removal, and disposal of slurry shall be considered incidental to the various contract items.
- D. GOOD HOUSEKEEPING BEST MANAGEMENT PRACTICES:
- 1. 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 Tar

Fertilizers Petroleum Based Products Cleaning Solvents Wood Masonry Block

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

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75), UNIT VIIB	2009	4	21

STAN DUNG	STATE OF DEPARTMENT OF HIGHWAYS	TRANSPORTATION
C LICENSED PROFESSIONAL LANDSCAPE ARCHITECT No. 5815	<u>WATER POLL</u> <u>EROSION CON</u>	
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.	<u>H-3 FINISH</u> FAIP NO. I-H3-1	
R. Jan One	Scale: None	Date: Nov. 2008
	SHEET No. G-4	OF 6 SHEETS
		4

_	TER POLLUTION AND EROSION CON	
D.	GOOD HOUSEKEEPING BEST MANAGEMENT PRA d. Keep products in their original containers wi	
	label.	
	e. Do not mix substances with one another unle	
	f. Whenever possible, use a product up complete	-
	g. Follow manufacturer's recommendations for p	·
	h. Conduct a daily inspection to ensure proper u onsite.	ise and
2.	Hazardous Material Pollution Prevention Plan	
	a. Keep products in original containers unless t	hey are
	b. Retain original labels and material safety dat	ta sheei
	c. Dispose of surplus products according to ma and local and State regulations.	nufactu
3.	Onsite and Offsite Product Specific Plan	
	The following product specific practices shall be	followe
	a. Petroleum Based Products: Monitor all onsite vehicles for leaks and perf to reduce the chance of leakage. Store petrol containers which are clearly labeled. Apply as according to the manufacturer's recommendat	eum prè sphalt s
	b. Fertilizers: Apply fertilizers used only in the minimum an manufacturer. Once applied, work fertilizer in to storm water. Storage shall be in a covered any partially used bags of fertilizer to a sea	nto the 1 shed.
	c. Paints: Seal and store all containers when not requin paint to the highway drainage system. Dispos instructions or State and local regulations.	
	d. Concrete Trucks: Wash out or discharge concrete truck drum v Do not discharge water in the highway drain Contact Drinking Water Branch, Department o permission to designate a disposal site. Clear by the Owner's representative.	age sys f Healti
4.	Spill Control Plan	
	a. Post a spill prevention plan to include measu spill.	res to j
	b. The Contractor shall be the spill prevention a at least three site personnel who shall receiv These individuals shall each become responsi and cleanup. Post the names of responsible s area and in the office trailer onsite.	e spill ble for
	c. Clearly post manufacturers' recommended met personnel aware of the procedures and the lo supplies.	
	d. Keep materials and equipment necessary for area onsite.	spill cle



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· · · · · · · · · · · · · · · · · · ·		FED. ROAD	STATE		FISCAL	SHEET	TOTAL
· · · · · · · · · · · · · · · · · · ·		FED. ROAD DIST. NO.		FEDERAL AID PROJ. NO. I-H3-1(75) IINIT VIIR	YEAR	SHEET NO.	TOTAL SHEETS

<u>UIES: -Cont.</u>

-Cont. iginal manufacturer's

mended by the manufacturer. disposing of the container. and disposal. isposal of materials

ot resealable. (MSDS). rs' instructions

onsite:

lar preventive maintenance ucts in tightly sealed stances used onsite

commended by the to limit exposure ransfer the contents of tic bin to avoid spills.

se. Do not discharge excess according to manufacturers'

r only at a designated site. or waters of the United States. at 586-4258 to receive site as required or as requested

event and clean up each

p coordinator. Designate evention and cleanup training. particular phase of prevention nnel in the material storage

spill cleanup. Make site the information and cleanup

up in the material storage

- e. Clean up all spills immediately after discovery.
- f. Keep the spill area well ventilated. Personnel shall wear appropriate protective clothing to prevent injury from contact with a hazardous substance.
- g. Report spills of toxic hazardous material to the appropriate State or local government agency, regardless of the size.

E. PERMIT REQUIREMENTS:

- 1. If a National Pollutant Discharge Elimination System (NPDES) Permit is required for Construction Activities of one acre or more, submit to the Engineer six sets of the Water Pollution and Erosion Control Submittals as detailed in Subsection 209.03 of the specifications.
- 2. If an 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. 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
 - b. NPDES Permit for Construction Dewatering
 - c. NPDES Permit for Hydrotesting Waters
 - d. Water Quality Certification
 - e. Stream Channel Alteration Permit
 - f. Section 404 Army Corps of Engineer Permit



WA	4 <i>T E</i>	ER POLLUTION AND EROSION CONTROL NOTES: -
F.	BE	ST MANAGEMENT PRACTICE NOTES:
		e following special conditions apply to all land disturbance work co 's general permit:
1.	Со	nstruction Management Techniques
	а.	Clearing and grubbing shall be held to the minimum necessary fo equipment operation.
	b.	Construction shall be sequenced to minimize the exposure time of surface area.
	С.	Construction shall be staged or phased for large projects. Areas shall be stabilized before another phase is initiated. Stabilizatio accomplished by temporarily or permanently protecting the disturb from rainfall impacts and runoff.
	d.	Erosion and sediment control measures shall be in place and fun- earth moving operations begin. These measures shall be properly and maintained throughout the construction period.
	С.	All control measures shall be checked and repaired as necessary, weekly in dry periods and within twenty-four hours after any rai inches or greater within a 24-hour period. During prolonged rai checking is necessary. The permittee shall maintain records of c repairs.
	f.	The permittee shall maintain records of the duration and estimate of storm water discharge(s).
	g.	The Contractor shall designate a specific individual to be responder erosion and sediment controls on each project site.
2.	Ve	getation Controls
	a.	Pre-construction vegetative ground cover shall not be destroyed, r disturbed more than twenty calendar days prior to land disturbar
	b.	Temporary soil stabilization with appropriate vegetation shall be a areas that will remain unfinished for more than thirty calendar o
	С.	Permanent soil stabilization with perennial vegetation or pavement applied as soon as practical after final grading. Irrigation and of the perennial vegetation shall be provided for thirty calendar of until the vegetation takes root, whichever is shorter.
З.	Sti	ructural Controls
	a.	Storm water flowing toward the construction area shall be divert appropriate control measures, as practical.
	b.	Erosion control measures shall be designed according to the size disturbed or drainage areas to detain runoff and trap sediment.
	С.	Water must be discharged in a manner that the discharge shall r contribute to a violation of the basic water quality criteria as spo section 11-54-04.
G.	SI	LT FENCE NOTES:
1.		ter fabric shall be of the type specified. The filter fabric shall b 36 inches wide.
2.		silt fence is obtained from manufacturer as a package (i.e. fabric st) the manufacturers installation instructions shall be adhered to.



<u>S: -Cont.</u>

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fabric attached to



