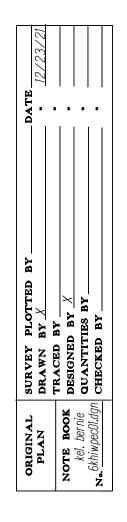
Ŵ	ATER POLLUTION AND EROSION CONTROL
A.	GENERAL:
1.	See Special Provisions Section 209 - Water Pollution and E describes but is not limited to: submittal requirements; sch and erosion control conference with the Engineer; construc of measurement; and basis of payment. In addition, Appendi sources and corresponding BMPs used to mitigate the pollu
2.	Follow the guidelines in the current HDOT Construction Be Field Manual in developing, installing and maintaining the E (BMP) for the project. For any conflicting requirements be applicable bid documents, the applicable bid documents will not be clearly described within the applicable bid document the Engineer immediately for interpretation. For the purpos Note A.2, "applicable bid documents" include the construction specifications, Special Provisions, Permits, and the Storm W Plan (SWPPP) when applicable.
3.	Follow the guidelines in the Honolulu's City & County "Rule Standards and Guidelines" along with applicable Soil Erosic Maui, Molokai, Kauai, and Hawaii.
4.	The Engineer may assess liquidated damages of up to \$27 each BMP requirement and each requirement stated in Sec provisions, for every day of non-compliance. There is no ma assessed per day.
5.	The Engineer will deduct the cost from the progress payment by the Department for non-compliance, or the Contractor sh amount of the outstanding cost incurred by the State.
6.	If necessary, install a rain gage prior to any field work in site-specific best management practices. The rain gage sha inches of rainfall. Install the rain gage on the project site rainfall from entering the gage opening. Do not install in may splash into rain gage. The rain gage installation shal begin field work until the rain gage is installed and site-s are in-place.
7.	Submit Site-Specific BMP Plan to the Engineer along with Review Checklist within 21 calendar days of date of award. Checklist may be obtained from <u>http://www.stormwaterhaw</u>
B.	WASTE DISPOSAL:
1.	Waste Materials Collect and store all waste materials in a securely lidded r container with cover to keep rain out or loss of waste dur shall meet all local and State solid waste management regu construction debris from the site in the dumpster. Empty the container is two-thirds full, whichever is sooner. Do not bu onsite. The Contractor's supervisory personnel shall be inst for waste disposal. Post notices stating these practices in bulletin board, or other accessible location acceptable to the responsible for seeing that these procedures are followed. Form for Construction Sites to the Engineer within 21 cale a copy of all the disposal receipts from the facility permits receive solid waste to the Engineer monthly. This should all intermediary facility where solid waste is handled or proce
2.	Hazardous Waste Dispose all hazardous waste materials in the manner speci by the manufacturer. The Contractor's site personnel shall shall be responsible for seeing that these practices are for



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Erosion Control. Section 209 heduling of a water pollution ction requirements; method lix A lists potential pollutant 'utants.

Best Management Practices Best Management Practices tween the Manual and govern. Should a requirement ts, the Contractor shall notify ses of clarification under on plans, standard Water Pollution Prevention

es Relating to Soil Erosion ion Guidelines for projects on

7,500 for non-compliance of ction 209 and special aximum limit on the amount

ment for all citations received hall reimburse the State for the full

including the installation of any all have a tolerance of at least 0.05 in an area that will not deter a location where rain water II be stable and plumbed. Do not specific best management practices

a completed Site-Specific BMP 1. The Site-Specific BMP Review <u>vaii.com</u>.

metal dumpster or roll off ring windy conditions. The dumpster ulations. Deposit all trash and the dumpster weekly or when the ury construction waste materials tructed regarding the correct procedure the office trailer, on a weatherproof ne Engineer. The Contractor shall be Submit the Solid Waste Disclosure endar days of date of award. Provide tted by the Department of Health to also include documentation from any essed.

rified by local or State regulations and be instructed in these practices and pllowed.

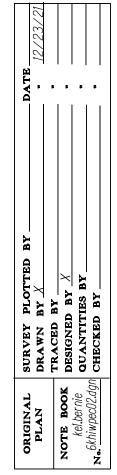
3. Sanitary Waste Collect all sanitary waste from the portable units a minimum of once per week, or as required. Position sanitary facilities where they are secure and will not be tipped over or knocked down.

C. EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES:

- 1. For projects with an NPDES Permit for Construction Activities, inspect at the following intervals. For construction areas discharging to nutrient or sediment impaired waters, inspect all control measures at least once each week and within 24 hours of any rainfall event of 0.25 inches or greater within a 24 hour period. For construction areas discharging to waters not impaired for nutrient or sediments, inspect all control measures weekly. Inspections are only required during the project's normal working hours. The discharge point water classification may be found in the SWPPP.
- 2. For projects without an NPDES Permit for Construction Activities, inspect all control measures weekly.
- 3. Maintain all erosion and sediment control measures in good working order. If repair is necessary, initiate repair immediately and complete by the close of the next work day if the problem does not require significant repair or replacement, or if the problem can be corrected through routine maintenance. When installation of a new erosion or sediment control or a significant repair is needed, install the new or modified control or complete the repair no later than 7 calendar days from the time of discovery. "Immediately" means the Contractor shall take all reasonable measures to minimize or prevent discharge of pollutants until a permanent solution is installed and made operational. If a problem is identified at a time in the day in which it is too late to initiate repair, initiation of repair shall begin on the following work day.
- 4. Remove built-up sediment from silt fence when it has reached one-third the height of the fence. Remove sediment from other perimeter sediment control devices when it has reached one-half the height of the device.
- 5. 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.
- 6. Inspect temporary and permanent seeding and planting for bare spots, washouts and healthy growth.
- 7. Complete and submit to the Engineer a maintenance inspection report within 24 hours after each inspection.
- 8. Provide a stabilized construction entrance at all points of exit onto paved roads 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 12 inches or as recommended by the soils engineer and underlain with geo-textile fabric. If minimum dimensions cannot be met, provide other stabilization techniques that remove sediment prior to exit. 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. Do not hose down the street without containing or vacuuming wash water. Cover dump trucks hauling material from the construction site with a tarpaulin. Remove sediment tracked onto the street, sidewalk, or other paved area by the end of the day in which the track-out occurs.
- 9. Include designated Concrete Washout Area(s) in the Water Pollution, Dust, and Erosion Control submittals.
- 10. Submit the name of a specific individual designated responsible for inspections, maintenance and repair activities and filling out the inspection and maintenance report.
- 11. 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.



WA	ATER POLLUTION AND ER	OSION CONTROL NOT
	12. Contain, remove, and dispose s accordance with approved BMF system or State waters.	
	13. For projects with an NPDES I stabilizing exposed soil areas where earth-disturbing activitie activities have permanently cea construction site that will not disturbing activities have temp any area of the site that will land will be idle) for a period resume in the future. For cons nutrients sediments, complete i temporary or permanent cessat discharging into nutrient or se within 7 calendar days after t activities. Classification of wai	upon completion of earth-di es have permanently or tem ased when clearing and exc include permanent structur porarily ceased when clearin not include permanent struct of 14 or more calendar da struction areas discharging initial stabilization within 14 tion of earth-disturbing act ediment impaired waters, co the temporary or permanent
	14. For projects without an NPDE stabilization within 14 calendar earth-disturbing activities.	
	D. GOOD HOUSEKEEPING BEST N	MANAGEMENT PRACTICES:
	1. Materials Pollution Prevention F a. Applicable materials or subst during construction. Other ma to the inventory.	ances listed below are expe
	Concrete Detergents Paints (enamel and latex) Metal Studs Tar Fertilizers Petroleum Based Products	Cleaning Solvents Wood Masonry Block Herbicides and Pest Curing Compounds Adhesives
	 b. Use Material Management Praexposure of materials and sure only enough product as is readed. c. Store all materials stored on containers and if possible under d. Keep products in their originate. Do not mix substances with a f. Whenever possible, use a product of the substance of the substan	Ibstances to storm water ru quired to do the job. Isite in a neat, orderly mani Ider a roof or other enclosu and containers with the origone another unless recomme duct up completely before do mendations for proper use
	2. Hazardous Material Pollution P a. Keep products in original cor b. Retain original labels and Sa Sheets (MSDS). c. Dispose of surplus products State regulations.	ntainers unless they are noi afety Data Sheets (SDS), foi
	3. Onsite and Offsite Product Spe The following product specific p	
	a. Petroleum Based Products: Monitor all onsite vehicles for	r leaks and perform regula . Store petroleum products



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aw cutting of pavement in			HAVV.	56A-01-24M	2025	5	15

ischarge into the drainage

tivities, immediately initiate isturbing activities for areas mporarily ceased. Earth-disturbing cavation within any area of the res has been completed. Earthing, grading, and excavation within ictures will not resume (i.e., the avs. but such activities will into waters not impaired for 14 calendar days after the tivities. For construction areas complete initial stabilization cessation of earth-disturbing may be found in the SWPPP.

Activities, complete initial or permanent cessation of

pected to be present onsite listed below shall be added

ticides

of spills or other accidental unoff. Make an effort to store

ner in their appropriate ure. ginal manufacturer's label.

ended by the manufacturer. disposing of the container.

and disposal. sposal of materials onsite.

ot resealable. prmerly Material Safety Data

rs' instructions and local and

onsite:

ar preventive maintenance to in tightly sealed containers which e according to the manufacturer's

b. Fertilizers:

Apply fertilizers used only in the minimum amounts recommended by the manufacturer and federal, state, and local requirements. Avoid applying just before a heavy rain event. Apply at the appropriate time of year for the location, and preferably timed to coincide as closely as possible to the period of maximum vegetation uptake and growth. Once applied, work fertilizer into the soil to limit exposure to storm water. Do not apply to storm conveyance channels with flowing water. Storage shall be in a covered shed or in an area where fertilizer will not come into contact with precipitation or stormwater. Transfer the contents of any partially used bags of fertilizer to a sealable plastic bin to avoid spills.

c. Paints:

Seal and store all containers when not required for use. Do not discharge excess paint to the drainage system, sanitary sewer system, or State waters. Dispose properly according to manufacturers' instructions and State and local regulations.

d. Concrete Trucks:

Washout or discharge concrete truck drum wash water only at a designated site as far as practicable from storm drain inlets or State waters. Do not discharge water in the drainage system or State waters. Disposal by percolation is prohibited. Clean disposal site as required or as requested by the Engineer.

4. Spill Control Plan

a. Post a spill prevention plan to include measures to prevent and clean up each spill. b. The Contractor shall be the spill prevention and cleanup coordinator. 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. Post the names of responsible spill personnel in the material storage area on a weatherproof bulletin board or other accessible location acceptable to the Engineer and in the office trailer onsite.

- c. Clearly post manufacturers' recommended methods for spill cleanup. Make site personnel aware of the procedures and the location of the information and cleanup supplies.
- d. Keep ample materials and equipment necessary for spill cleanup in the material storage area onsite.
- 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. Where a leak, spill, or other release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under either 40 CFR Part 110, 40 CFR Part 117, or 40 CFR Part 302 occurs during a 24-hour period, the Contractor shall notify the Engineer as soon as the Contractor has knowledge of the discharge. The Engineer will notify the National Response Center (NRC) at (800) 424-8802, the Clean Water Branch during regular business hours at (808) 586-4309, and the Hawaii State Hospital Operator at (808) 247-2191 and the Clean Water Branch (DOH-CWB) via email at <u>cleanwaterbranch@doh.hawaii.gov</u> during non-business hours immediately. The Contractor shall also provide to the Engineer, within 7 calendar days of knowledge of the release, a description of the release, the circumstances leading to the release, and the date of the release. The Engineer will provide this information to the DOH-CWB. The Engineer will provide information to the NRC if requested.

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION						
WATER POLLUTION & EROSION CONTROL NOTES						
<u>KUHIO HIGHWAY</u> <u>CONCRETE BARRIER INSTALLATION</u> <u>Vicinity of Lanikai Street</u> <u>Project No. 56A-01-24M</u> Data May 2024						
Date: May 2024 SHEET No. 2 OF 3 SHEETS						
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WATER POLLUTION AND EROSION CONTROL NOT
E. PERMIT REQUIREMENTS:
1. The calculated land disturbance area for this project based plans is 0.05 acre not including Contractor Staging and Store of the disturbed area and the Contractor Staging and Store the Contractor shall obtain the NPDES Construction Activitie SWPPP template. See Hawaii Administrative Rules Chapter 1 definition of land disturbance. The Contractor shall be resp required NPDES Construction Activities Permit and complyin HAR 11-55 including, but not limited to:
a. Deadlines for initiating and completing initial stabilization b. Increased inspection frequency and installation of rain ga c. Deadlines to initiate and complete repairs to BMPs d. Reporting requirements and corrective action reports
2. Comply with all applicable State and Federal Permit conditi- but 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

DATE	
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ORIGINAL PLAN	NOTE BOOK kel.bernie s

DTES (Cont.):

sed on the construction Storage areas. If the total torage area is one acre or greater, wities Permit using HDOT's latest or 11-55, Appendix C for the esponsible for obtaining the lying with the requirements of

tion n gage if applicable

ditions. Permits may include,

F. SITE-SPECIFIC BMP REQUIREMENTS:

Each BMP below is referenced to the corresponding Practices Field Manual and appropriate Supplemental Statewide Stormwater Management Program Website and-consultants/ under Construction Best Management http://www.stormwaterhawaii.com/resources/contrac under Concrete Curing and Irrigation Water.

The requirements for Water Pollution, Dust, and Eros the Hawaii Standard Specifications for Road and Br Provisions. A list of pollutant sources and correspond in Section 209 of the Special Provisions under Apper

Follow the requirements below:

- 1. Protect all Drainage Inlets receiving runoff from
- 2. Contain on-site runoff using Perimeter Sediment
 - a. SC-7 Silt Fence or Filter Fabric Fence
 - b. SC-2 Vegetated Filter Strips and Buffers
- c. SC-6 Compost Filter Berm/Sock
- d. SC-8 Sandbag Barrier
- e. SC-9 Brush or Rock Filter
- 3. Control offsite runoff from entering construction a. EC-3 Run-On Diversion
- b. EC-6 Earth Dike, Swales, and Ditches
- 4. Incorporate applicable Site Management BMP
- a. SM-1 Employee Training
- b. SM-2 Material Storage and Handling
- c. SM-3 Stockpile Management
- d. SM-6 Solid Waste Management
- e. SM-7 Sanitary Waste Management
- f. SM-9 Hazardous Materials and Waste Manage
- g. SM-10 Spill Prevention and Control
- h. SM-11 Vehicle and Equipment Cleaning
- i. SM-12 Vehicle and Equipment Maintenance
- j. SM-13 Vehicle and Equipment Refueling
- k. SM-14 Scheduling
- I. SM-15 Location of Potential Sources of Sedim
- m. SM-16 Staging Area
- n. SM-17 Preservation of Existing Vegetation
- o. SM-19 Dust Control
- 5. Contain pollutants within the Construction Staging Controls and Site Management BMP. Include a Si which exit onto a paved street. Restrict vehicle a
- 6. Manage Concrete Waste including installing a Con Curing Water (California Stormwater BMP Handbo
- 7. Remove saw cut slurry and hydrodemolition water and/or perimeter sediment controls during saw c

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section of the current HDOT Cons Sheets. The Manual may be obtain at http://www.stormwaterhawaii.co nt Practices Field Manual. Supplem tors-and-consultants/storm-water-p	ned from th m/resource nental BMP	ne HDC es/con sheets)T tractors- s are located			
sion Control submittals are include ridge Construction dated 2005 and nding BMP used to mitigate the poi ndix A.	applicable	Specia	2/			
disturbed areas (SC-1).						
Controls						
area						
ement						
ent						
g/Storage Area BMP with applicat tabilized Construction Entrance/E, access to these points.						
crete Washout Area (SM-4) and pr ook NS-12 Concrete Curing).	operly dispo	osing (of Concrete			
from the site by vacuuming. Pro utting and hydrodemolition work.	ovide storm	drain	protection			
unning and nydrodemonnon work.						
		DEPAF	STATE OF HAV TMENT OF TRA HIGHWAYS DIV	NSPORTA	ATION	
	<u>WATEF</u>	r POLLU	TION & EROSI	ION CON	TROL N	OTES
			KUHIO HIGH E BARRIER I	NSTALL		
		-	<u>ity of Lanika</u> ject No. 564	4-01-24/		

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SHEET No.	3	OF	3	SHEETS

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