

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	72B-01-13M	2013	4	34

GENERAL NOTES

1. The scope of work for this project includes repair of cracks and spalls in an existing concrete bridge structure, installation of fiberwrap reinforcing around the concrete bridge structure, painting of concrete bridge and temporary traffic control.

2. The Contractor is reminded of Subsection 105.16 Subcontracts, which requires him to perform work amounting to not less than 30 percent of the total contract cost less deductible items. Non-compliance with this subsection may be grounds for rejection of bids.

3. The Contractor's attention is directed to the following Sections of the Standard Specifications: Subsection 104-11 Utilities and Services; Section 107 Legal Relations and Responsibility to Public; and Section 645 - Work Zone Traffic Control.

4. The Contractor shall obtain necessary permits prior to start of work at his own cost including, but not limited to, noise. Contractor shall provide public advertisements prior to construction, see Standard Specs Subsection 645.03(H).

5. When performing work within the State Right-of-Way, nearby, adjacent to, or on the travel way, the Contractor shall refer to Section 645 Work Zone "Traffic Control" of these specifications.

6. The Contractor shall utilize all appropriate methods, procedures and precautions necessary when performing concrete repair work.

7. The Contractor's attention is directed to Section 102.05 of the Standard Specifications. The Contractor is responsible for visiting and inspecting the site in order to ascertain site conditions; to properly gage the extent of concrete damage; to determine appropriate construction methods; to anticipate difficulties in the sequencing and lay out construction operations; and to prepare accurate material, labor, and cost estimates. Any claims for additional payment, based upon work difficulties that arise from failure of the Contractor to fully inspect the site or to closely read the available plans, shall be denied by the Engineer.

8. All work specified in the contract but not listed separately in the proposal schedule shall be considered incidental to other various contract items and will not be paid for separately.

9. This project requires the implementation of a Best Management Practices (BMP) plan during all demolition and construction work to prevent and/or minimize environmental impacts during the construction activity. If foreign objects and/or materials accidentally fall into the gulch or ocean, they shall be retrieved and disposed of at no cost to the State. The BMP plan shall address the use of dust and debris containment and catchment devices to prevent any foreign matter (e.g. construction materials, debris, dust, etc.) from falling into the gulch or ocean from the bridge and to minimize fugitive dust. The Contractor shall submit BMP plans to the Engineer at least 21 calendar days prior to commencing work.

10. Details shown on the drawings shall be typical for all similar conditions. Modify details for special conditions as directed by the Engineer.

11. Existing drainage systems shall remain functional at all times during construction. The Contractor is to furnish materials, equipment, labor, tools and incidentals necessary to maintain flow. This work shall be considered incidental to the various contract items.

12. The Contractor shall verify the locations of all existing drainage structures in the field. Any existing drainage structures and utilities damaged during construction shall be repaired or replaced by the Contractor at his own expense, to the satisfaction of the Engineer.

13. The Contractor shall be solely responsible for the protection of adjacent properties, utilities and existing structures from damages due to construction. Any such damage shall be repaired or replaced at the Contractor's own expense, to the satisfaction of the Engineer.

14. The Contractor shall provide and maintain for access to and from all existing driveways, sidewalks, and cross streets at all times. This work shall be considered incidental to the various contract items and will not be paid for separately.

15. Removal and disposal of all debris from construction activities shall be considered incidental to their respective bid items.

16. No materials and/or equipment shall be stockpiled or otherwise stored within the highway right-of-way except at locations designated in writing and approved by the Engineer. If use of location is approved by the Engineer, the Contractor shall obtain a permit for Occupancy and Use of State Right-Of-Way from the Highways Division, Oahu District Office.

17. No debris shall be allowed to enter the gulch or ocean. The Contractor shall provide a temporary platform or other suitable positive means of capturing debris from construction and demolition operations. These facilities shall be in place prior to starting demolition work.

18. The Contractor shall remove all silt and debris resulting from his work deposited in drainage facilities, roadways and other areas. The costs for any necessary remedial action by the Government shall be paid by the Contractor. Contractor shall protect all storm drains and deck openings to prevent the discharge of foreign materials to the water.

19. Wastewater from demolition work shall not be discharged into the gulch or ocean. The Contractor shall capture all pollutants and dispose of them at recycling or disposal facilities permitted by the Department of Health.

20. The Contractor will be responding for regulatory fines or penalties that may be imposed by environmental regulatory agencies (EPA and/or State DOH) as a result of improper construction activities.

21. At the end of each day's work, the Contractor shall remove all equipment and other obstructions to permit free and safe passage of public traffic.

22. All work shall be performed during the day. "Normal" working hours shall be from 7:00 a.m. to 6:00 p.m., Monday through Friday, excluding holidays. Night work will not be permitted. See Special Provisions Section 107.
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| SURVEY PLOTTED BY | DATE |
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| QUANTITIES BY | |
| CHECKED BY | |
| ORIGINAL PLAN | |
| NOTEBOOK | |
| No. | |
- NORMAN K. NAGAMINE

LICENSED PROFESSIONAL ENGINEER

NO. 5479-S

HAWAII, U.S.A.

LICENSE EXPIRES: 4/30/14

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Norman K. Nagamine

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL NOTES

KALANIANA'OLE HIGHWAY
Emergency Repairs of Ihiihilauakea Bridge
Project No. 72B-01-13M

Scale: None Date: Jan. 16, 2013

SHEET No. S-1 OF 26 SHEETS

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WATER POLLUTION AND EROSION
CONTROL NOTES

A. GENERAL

- See Section 209 - Water Pollution and Erosion Control. 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.
- Effective October 1, 2008, follow the guidelines in the "Construction Best Management Practices Field Manual", dated January 2008 in developing, installing and maintaining the Best Management Practices (BMP) for the project.
- Follow the guidelines in the Honolulu City & County "Rules Relating to Soil Erosion Standards and Guidelines".
- The Engineer may assess liquidated damages of up to \$27,500 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.
- For projects that require an NPDES Permit from the Department of Health, install a rain gage prior to any field work including the installation of any site-specific best management practices. The rain gage shall have a tolerance of at least 0.05 inches of rainfall, and have an opening of at least one-inch in diameter. Install the rain gage on the project site in an area that will not deter rainfall from entering the gage opening. The rain gage installation shall be stable and plumbed. Do not begin field work until the rain gage is installed and site-specific best management practices are in-place.
- The Contractor shall submit BMP plans to the Engineer at least 21 calendar days prior to commencing work.

B. WASTE DISPOSAL

- Waste Materials: Collect and store all waste materials in a securely lidded metal dumpster. The dumpster shall meet all local and State solid waste management regulations. Deposit all trash and construction debris from the site in the dumpster. Empty the dumpster a minimum of twice per week or as often as is deemed necessary. Do not bury construction waste materials onsite. The Contractor's supervisory personnel shall be instructed regarding the correct procedure for waste disposal. Post notices stating these practices in the office trailer and the Contractor shall be responsible for seeing that these procedures are followed.
- Hazardous Waste: Dispose all hazardous waste materials in the manner specified by local or State regulations and 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: Collect all sanitary waste from the portable units a minimum of once per week, or as required.

C. EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES

- Inspect all control measures at least once each week and within 24 hours of any rainfall event of 0.5 inches or greater within a 24 hour period.
- Maintain all measures in good working order. If repair is necessary, it shall be initiated within 24 hours after the inspection.
- Remove built-up sediment from silt fence when it has reached one-third the height of the fence.
- 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.
- Inspect temporary and permanent seeding and planting for bare spots, washouts and healthy growth.
- 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.

- 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 12 inches or as recommended by the soils engineer 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. Dump trucks hauling material from the construction site with a tarpaulin.
- Include designated Concrete Washout Area(s) in the Water Pollution, Dust, and Erosion Control submittals.
- Submit the name of a specific individual designated 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.
- 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

- 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
Paints (enamel and latex)	Products
Metal Studs	Cleaning Solvents
Tar	Wood
	Masonry Block

- 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.
 - Store all materials stored onsite in a neat, orderly manner in their appropriate containers and if possible under a roof or other enclosure.
 - Keep products in their original containers with the original manufacturer's label.
 - Do not mix substances with one another unless recommended by the manufacturer.
 - Whenever possible, use a product up completely before disposing of the container.
 - Follow manufacturer's recommendations for proper use and disposal.
 - Conduct a daily inspection to ensure proper use and disposal of materials onsite.
- Hazardous Material Pollution Prevention Plan
 - Keep products in original containers unless they are not resealable.
 - Retain original labels and all material safety data sheets (MSDS) on-site.
 - Dispose of surplus products according to manufacturers' instructions and local and State regulations.

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 LICENSE EXPIRES: 4/30/14 THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. <i>Norman K. Nagamine</i>	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION WATER POLLUTION & EROSION CONTROL NOTES KALANIANA'OLE HIGHWAY Emergency Repairs of Ihihilauea Bridge Project No. 72B-01-13M Scale: None Date: Jan. 16, 2013
	SHEET No. S-2 OF 26 SHEETS

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WATER POLLUTION AND EROSION CONTROL NOTES (Cont.)

D. *GOOD HOUSEKEEPING BEST MANAGEMENT PRACTICES - Cont.*

3. *Onsite and Offsite Product Specific Plan. The following product specific practices shall be followed onsite:*

a. *Petroleum Based Products: Monitor all onsite vehicles for leaks and perform regular preventive maintenance to reduce the chance of leakage. Store petroleum products in tightly sealed containers which are clearly labeled. Apply asphalt substances used onsite according to the manufacturer's recommendation.*

b. *Fertilizers: Apply fertilizers used only in the minimum amounts recommended by the manufacturer. Once applied, work fertilizer into the soil to limit exposure to storm water. Storage shall be in a covered shed. 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 highway drainage system. Dispose properly according to manufacturers' instructions or State and local regulations.*

d. *Concrete Trucks: Wash out or discharge concrete truck drum wash water only at a designated site. Do not discharge water in the highway drainage system or waters of the United States. Contact Drinking Water Branch, Department of Health at 586-4258 to receive permission to designate a disposal site. Clean disposal site as required or as requested by the Owner's representative.*

4. *Spill Control Plan*

a. *Post a spill prevention plan at the project site 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 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 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.*

E. *PERMIT REQUIREMENTS (for Water Pollution and Erosion Control)*

1. *Comply with all applicable State and Federal Permit conditions.*

2. *A National Pollutant Discharge Elimination System (NPDES) Permit is required for Construction Activities of one acre or more. Total plan area of construction activities for this project shall be limited to less than one acre.*

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NOTEBOOK	
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	Scale: None	Date: Jan. 16, 2013
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