FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	360B-01-93M	1993	3	24

GENERAL NOTES

1. The scope of work for this project consists of cold planing, resurfacing, installing pavement markings and signing.

2. The Contractor is reminded of the requirements of Subsection 108.01 - Subletting of Contract, which requires him to perform work amounting to not less than 50 percent of the total contract cost less deductible items. Non-compliance with this Subsection may be grounds for rejection of bid.

3. The Contractor's attention is directed to the following Sections of the Special Provisions: Subsection 107.13 - Public Convenience and Safety, and Section 645 - Traffic Control.

4. 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.

5. The existence and location of underground utilities, manholes, monuments and structures as shown on the plans are from the latest available data but the accuracy is not guaranteed. The encountering of other obstacles during the course of the work is possible. The Contractor shall be held liable for any damages incurred to the existing facilities and/or improvements as a result of his operations.

6. The exact locations and limits or areas to be filled with leveling course and cold planed shall be determined in the field by the Enginer.

7. The Contractor shall notify the State in writing, two (2) weeks prior to starting paving operations.

8. The Contractor shall remove and dispose of all existing raised pavement markers prior to the overlaying of Asphalt Concrete. This work shall be considered incidental to Asphalt Concrete Pavement, Mix No. V and will not be paid for separately.

9. All holes, depressions and wheel ruts shall be filled and compacted with Asphalt Concrete Pavement, Mix No. V prior to resurfacing. This work will be paid for under Asphalt Concrete Pavement, Mix No. V.

10. Smooth riding connections shall be constructed at all limits of resurfacing including the beginning and end of project, connecting approaches, side streets and driveways as shown on the plans and/or as directed by the Engineer.

11. Prior to cold planing over an existing structure, the Contractor shall determine the actual depth of the existing asphalt concrete pavement. The Contractor shall take several cross section measurements throughout the structure. If the thickness of the existing pavement is less than the proposed resurfacing thickness, the Contractor shall remove the existing pavement to the level of the structure and resurface to the original thickness.

12. In cold planing the pavement over the structure, the Contractor shall exercise care not to damage any portion of the structure, especially the structure deck, joints, drain pipes or reinforcement. Any damage to the structure during the cold planing operation shall be repaired by the Contractor at his own expense. Repair work shall be as directed by the Engineer. The Contractor shall verify the existing pavement thickness by hand digging at various locations. This work shall be considered incidental to Cold Planing.

13. The Contractor shall prepare the shoulder area and any swale area adjacent to the travelway by clearing and grubbing unwanted vegetation and material. The Contractor shall fill and compact all depressions with Asphalt Concrete Pavement, Mix No. V from the existing edge of pavement to the new edge of shoulder. The Contractor shall backfill, grade and compact with suitable backfill material as approved by the Engineer within the new A. C. Swale area, prior to paving. Work shall be in accordance with Section 201 - Clearing and Grubbing and Section 401 - Asphalt Concrete Pavement. Clearing and grubbing, backfilling, grading and compacting the approved material within the new A. C. Swale area will not be paid for separately and will be considered incidental to Asphalt Concrete Pavement, Mix No. V. Filling and Compacting depressions with Asphalt Concrete, Mix No. V and paving of shoulders and swales will be paid for under Asphalt Concrete Pavement, Mix No. V.

14. Dressing of areas adjacent to the paved shoulders shall consist of clearing, grubbing, grading, reshaping and compacting with suitable excavated material as shown on the plans and/or as directed by the Engineer. This work shall be considered incidental to the various contract items.

15. Existing drainage system will be functional at all times during construction. 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.

16. The Contractor shall verify the locations of all existing culverts in the field. Any existing drainage structures damaged during construction shall be repaired or replaced by the Contractor at his own expense.

17. The exact limits of new A.C. swales shall be determined in the field by the Engineer.

18. All gutters and swales shall be graded to drain.

19. Contractor shall provide for access to and from all existing side streets at all times.

20. All saw cutting work shall be considered incidental to Cold Planing.

LEGEND

—w—12"— Existing Water Line

—2w—2"— Existing Double Water Line

⊟ gdi Existing Grated Drop Inlet

○ tp Existing Telephone Pole

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE 4/27/93
	DRAWN BY dcl/jms	
NOTE BOOK	TRACED BY	
	DESIGNED BY dcl/jms	
No. Shelf	QUANTITIES BY	
	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL NOTES AND LEGEND

HANA HIGHWAY RESURFACING
VARIOUS LOCATIONS
PROJECT NO. 360B-01-93M

Date: April, 1993

SHEET No. 1 OF 1 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	360B-01-93M	1993	ADD.3S-1	24

NPDES Pollutant Control General Notes:

A. WASTE DISPOSAL:

1. Waste Materials

All waste materials will be collected and stored in a securely lidded metal dumpster. The dumpster will meet all City and State solid waste management regulations. All trash and construction debris from the site will be deposited in the dumpster. The dumpster will be emptied a minimum of twice per week or as often deemed necessary. No construction waste materials will be buried onsite. Operator's supervisory personnel will be instructed regarding the correct procedure for waste disposal. Notices stating these practices will be posted in the office trailer and the Operator will be responsible for seeing that these procedures are followed.

2. Hazardous Waste

All hazardous waste materials will be disposed of in the manner specified by local or State regulation or by the manufacturer. Operator's site personnel will be instructed in these practices and will be responsible for seeing that these practices are followed.

3. Sanitary Waste

All sanitary waste will be collected from the portable units a minimum of once per week, or as required.

B. EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES:

1. All control measures will be inspected at least once each week and following any rainfall event of 0.5 inches or greater.

2. All measures will be maintained in good working order. If a repair is necessary, it will be initiated within 24 hours after the inspection.

3. Built-up sediment will be removed from silt fence when it has reached one-third the height of the fence.

4. Silt fence will be inspected for depth of sediment, tears, to see if the fabric is securely attached to the fence posts, and to see that the fence posts are firmly in the ground.

5. The sediment basin will be inspected for depth of sediment, and built-up sediment will be removed when it reaches 10 percent of the design capacity and at the end of the job.

6. Diversion dike will be inspected and any breaches promptly repaired.

7. Temporary and permanent seeding and planting will be inspected for bare spots, washouts, and healthy growth.

8. A maintenance inspection report will be made promptly after each inspection by the Operator.

9. The Operator will select a minimum of three personnel who will be responsible for inspections, maintenance and repair activities, and filling out the inspection and maintenance report.

10. Personnel selected for the inspection and maintenance responsibilities will receive training from the Operator. They will be trained in all the inspection and maintenance practices necessary for keeping the erosion and sediment controls used onsite in good working order.

C. BEST MANAGEMENT PRACTICES- Pollutant Control (Good Housekeeping)

1. Material 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	Fertilizers
Detergents	Petroleum Based Products
Paints (enamel and latex)	Cleaning Solvents
Metal Studs	Wood
Tar	Masonry Block

b. Material Management Practices will be used to reduce the risk of spills or other accidental exposure of materials and substances to storm water runoff. An effort will be made to store only enough product required to do the job.

c. All materials stored onsite will be stored in a neat, orderly manner in their appropriate containers and, if possible, under a roof or other enclosure.

d. Products will be kept in their original containers with the original manufacture's label.

e. Substances will not be mixed with one another unless recommended by the manufacturer.

f. Whenever possible, all of a product will be used up before disposing of the container.

g. Manufacturers' recommendations for proper use and disposal will be followed.

h. The Operator will conduct a daily inspection to ensure proper use and disposal of materials onsite.

2. Hazardous Material Pollution Prevention Plan -

a. These practices are used to reduce the risks associated with hazardous materials.

b. Products will be kept in original containers unless they are not resealable.

c. Original labels and materials safety data will be retained; they contain important product information.

d. Surplus products must be disposed of, according to manufacturers' instructions or local and State recommended methods for proper disposal will be followed.

3. Onsite and Offsite Product Specific Plan -

a. The following product specific practices will be followed onsite:

1) Petroleum Based Products:

All onsite vehicles will be monitored for leaks and receive regular preventive maintenance to reduce the chance of leakage. Petroleum products will be stored in tightly sealed containers which are clearly labeled. Any asphalt substances used onsite will be applied according to the manufacturer's recommendations.

2) Fertilizers:

Fertilizers used will be applied only in the minimum amounts recommended by the manufacturer. Once applied, fertilizer will be worked into the soil to limit exposure to storm water. Storage will be in a covered shed. The contents of any partially used bags of fertilizer will be transferred to a sealable plastic bin to avoid spills.

3) Paints:

All containers will be tightly sealed and stored when not required for use. Excess paint will not be discharged to the highway drainage system but will be properly disposed of according to manufacturers' instructions or State and local regulations.

4) Concrete Trucks:

Concrete trucks will be allowed to wash out or drum wash water only at designated site. Water will not be discharged in the highway drainage system or waters of the United States. Operator shall contact Drinking Water Branch, Department of Health at 586-4258 to receive permission to designate a disposal site. Operator will clean disposal site as required or as requested by the Owners representative.

b. Offsite Vehicle Tracking:

1) A stabilized construction entrance shall be provided to help reduce vehicle tracking of sediments. The paved street adjacent to the site entrance will be cleaned daily or as required to remove any excess mud, dirt or rock tracked from the site. Dump trucks hauling material from the construction site will be covered with a tarpaulin.

4. Spill Control Plan -

a. Manufacturers' recommended methods for spill cleanup will be clearly posted and site personnel will be made aware of the procedures and the location of the information and cleanup supplies.

b. Materials and equipment necessary for spill cleanup will be kept in the material storage area onsite.

c. All spills will be cleaned up immediately after discovery.

d. The spill area will be kept well ventilated and personnel will wear appropriate protective clothing to prevent injury from contact with a hazardous substance.

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

f. Spill prevention plan will be posted and adjusted to include measures to prevent spills and how to clean up the spills. A description of the spill, what caused it, and the cleanup measures will also be included.

g. The Operator will be the spill prevention and cleanup coordinator. He will designate at least three site personnel who will receive spill prevention and cleanup training. These individuals will each become responsible for a particular phase of prevention and cleanup. The names of responsible spill personnel will be posted in the material storage area and in the office trailer onsite.

D. PAYMENT:

1. Unforeseen hazardous material encountered during construction shall be disposed of in the manner as indicated in "A.1 Waste Materials" and "A.2 Hazardous Waste". Payment shall be made under Item 639.0200, Disposal of Hazardous Waste under Force Account basis.

2. A portion of the maintenance of erosion and sediment control as indicated in Item "B" of the Erosion Control Plan excluding the construction operation requirements shall be made under Item 639.0300, Maintenance of Erosion and Sediment Control under Force Account basis. Payment for Item "B" shall be only for repair and removal of built-up sediment.

E. SUBMITTAL REQUIREMENTS:

1. The Contractor shall submit to the Engineer four(4) sets of Site-Specific Best Management Plan (BMP) for the NPDES General Permit no later than thirty(30) calendar days after the award of contract.

2. The Contractor shall submit to the Engineer four(4) sets of Site-Specific Dewatering and/or Hydrotesting Water Plan and four(4) copies of the Quality of Discharge Test results for these applicable permit as required by the Contract Plans and Specifications no later than ninety(90) calendar days after the award of Contract. No work will be authorized until the submittal of these Plans.

3. Progress payment will not be authorized until the receipt of the BMP as noted in Item E1.

4. Any citation (fine) received by the State for non-compliance of the NPDES Permit requirement shall be deducted from the progress payment.

ORIGINAL PLAN
NOTE BOOK No. 3handpcgn.dgn
SURVEY PLOTTED BY ____ DATE 6/4/93
DRAWN BY ____ "
TRACED BY ____ "
DESIGNED BY ____ "
QUANTITIES BY ____ "
CHECKED BY ____ "

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

NPDES GENERAL NOTES

HANA HIGHWAY RESURFACING
Various Locations
PROJECT NO. 360B-01-93M

Date: June, 1993

SHEET No. 1 OF 1 SHEETS