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FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(072)	2014	1	X

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

HONOLULU, HAWAII

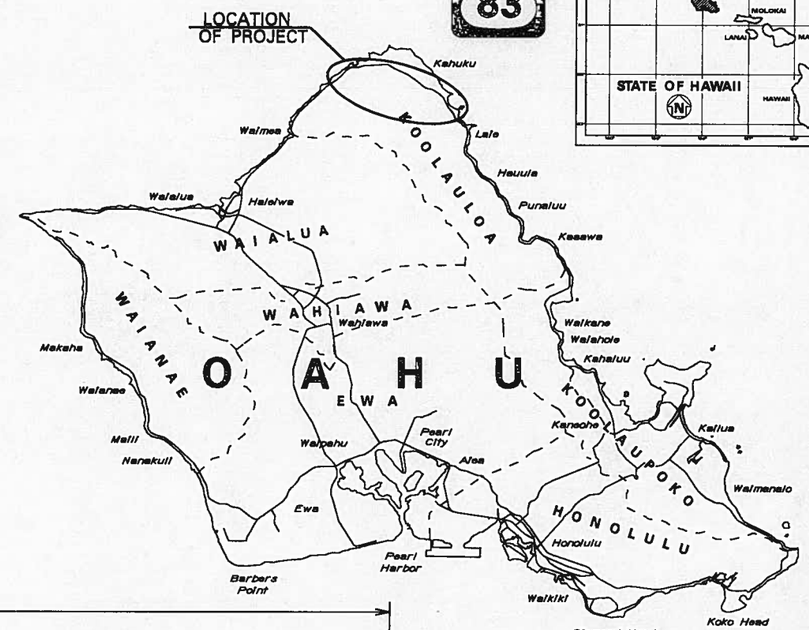
PLANS FOR

KAMEHAMEHA HIGHWAY RESURFACING

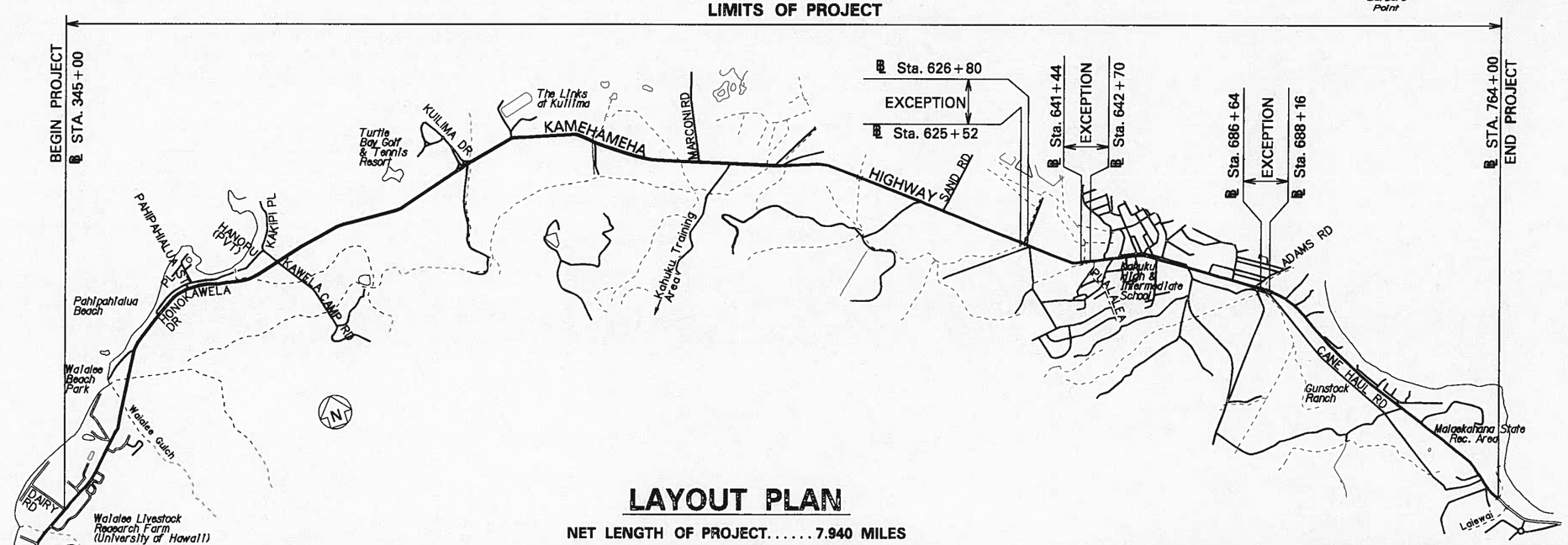
DAIRY ROAD TO LAIEWAI BRIDGE
FEDERAL-AID PROJECT NO. NH-083-1(072)

DISTRICT OF KOOLAULOA

ISLAND OF OAHU



MILE POST 9.72 TO MILE POST 17.66



LAYOUT PLAN

NET LENGTH OF PROJECT..... 7.940 MILES

2 1 0 2 4 6

SCALE IN THOUSAND FEET

DESIGN DESIGNATION	DAIRY RD to KUILIMA DR	KUILIMA DR to PUALALEA ST	PUALALEA ST to NANILOA LP
ADT (2011)	9,000	8,200	13,400
ADT (2021)	10,000	9,500	15,300
DHV	900	860	1,300
K	9.0	9.0	8.5
T	3.5	4.0	4.5
T_{24}	4.5	4.5	4.0

DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII

APPROVED:

DIR. OF TRANSPORTATION — DATE

HWY-D DESIGNED BY

HWY-DD MANAGED BY

692-7570 PHONE

Sept 2011 DATE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(072)	2014	3	0

GENERAL NOTES

1. The scope of work for this project consists of cold planing, resurfacing of weakened pavement areas, replacing existing asphalt concrete pavement with reinforced concrete slab to span over the existing damaged culvert, installation of new guardrails, milled centerline, and shoulder rumble strips, striping, pavement markings, and signage, upgrading existing guardrails, end treatments, bridge rails, construct curb below existing guardrail thrie beam, reconstruction of a culvert headwall and top portions of drainage inlets, and adjustment of utility manholes.

2. The Contractor is reminded of the requirements of Subsection 105J6 - Subcontracts, which requires him to perform work 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 bid.

3. The Contractor's attention is directed to the following Sections of the Special Provisions: Subsection 104.09 Maintenance of Traffic Subsection 104J1 - Utilities and Services; Subsection 107.06 - Contractor Duty Regarding Public Convenience; and Section 645 - Work Zone 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 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. All damaged portions shall be replaced in accordance with the standards and specifications of the affected utility company at no cost to the State.

6. The Contractor shall verify the presence of existing aerial and underground utilities which may conflict with construction activities and shall coordinate with the utility company for temporary relocation as necessary. All cost associated with the temporary relocations shall be borne by the Contractor.

7. The exact locations and limits of areas to be reconstructed and cold planed shall be determined in the field by the Engineer.

8. The Contractor shall notify the Department of Transportation Services, Public Transit Division at 768-8396 and Oahu TransitServices, Inc. (bus operations: 848-4578 or 852-6016 and paratransit operations: 454-5041 or 454-5020) of the scope of work, location, proposed closure of any street, traffic lane sidewalk, or bus stop and duration of project at least two (2) weeks prior to construction.

9. The Contractor shall notify the Engineer in writing, two (2) weeks prior to starting construction operations.

10. The Contractor shall obtain all necessary permits prior to start of work at his own cost.

11. The Contractor shall submit maintenance plans and schedules, including traffic detours, road or lane closures, lane switches, and the placement of temporary traffic control devices, to the Engineer for acceptance prior to Construction.

12. The Contractor shall remove and dispose of all existing raised pavement markers, thermoplastic line markings, traffic tapes, and epoxy adhesives prior to the overlaying of Asphalt Concrete. This work shall be considered incidental to Asphalt Concrete Pavement, Mix No. IV and will not be paid for seperately.

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

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

15. Existing drainage system will be functional at all times during construction. The Contractor shall furnish materials, equipment, labor, tools and incidentals necessary to maintain flow. This work shall be considered incidental to any culvert work or the various contract items and will not be paid for seperately.

16. The Contractor shall provide and maintain for access to and from all existing driveways , sidewalks and ADA access routes, and side streets and cross streets at all times. This work shall be considered incidental to curb ramps, or sidewalk, or the various contract items and will not be paid for seperately.

17. All saw cutting work shall be considered incidental to Roadway Excavation or Asphalt Concrete or Various Contract Items or their respective bid items.

18. Contractor shall dispose or deliver any removed material at no cost to the State.

19. Prior to his resurfacing operations, the Contractor shall be responsible for locating, preserving and marking all utility and highway facilities that will require adjustments to the new finished pavement grade. Additionally, the Contractor shall submit to the Engineer a list of all items, including water, drainage, sewer, electrical, telephone, and cable utilities to be adjusted to the new finished grade. This work shall be considered incidental to the various contract items.

20. After completion of resurfacing, the Contractor and the Engineer will test for, and determine ponding areas (i.e. low spots within the resurfaced area). It shall be the responsibility of the Contractor to correct and resurface and/or repair all such ponding areas. Corrective measures shall be approved by the Engineer.

21. No material 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 to use the property within the highway right-of-way from the State Highways Right-of-Way Branch at telephone no. 692-7332.

22. Tack coat shall be incidental to the various Asphalt Concrete Pavement items.

23. The Contractor is to take special measures to reduce dust from cold planing operations including but not limited to use of water misters on cold planing equipment and vacuum sweepers. Use of power brooms to sweep road is not allowed if a dust nuisance is created.

24. All work specified in the Contract but not listed separately in the proposal shcedule shall be considered incidental to other various contract items and shall not be paid for separately.

25. Existing facilities and/or pavement to remain which has been damaged by the Contractor shall be restored to its original condition at no cost to the State.

26. The Contractor shall be held liable for any damages incurred to the existing landscaping as a result of his operations.

ORIGINAL PLAN
SURVEY PLOTTED BY
DRAWN BY X
TRACED BY X
DESIGNED BY X
QUANTITIES BY
CHECKED BY
DATE X
NOTE BOOK dd.x No. X.dgn

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL NOTES AND LEGEND

KAMEHAMEHA HIGHWAY RESURFACING
Dairy Road to Laiewai Bridge
Federal-Aid Project No. NH-083-1(072)

Date: March, 2014

SHEET No. 1 OF 2 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(072)	2014	4	0

PAVING AROUND MANHOLES:

1. The Contractor shall first lower manholes more than 3" prior to cold planing. The work shall be considered incidental to the various paving contract items. Upon final paving, the manhole shall be raised and paid under various contract items pertaining to manhole adjustments.
2. The Contractor shall place hot asphalt concrete around manholes and compact properly with a vibrating plate compactor.
3. If a plate compactor is not used, the Contractor shall use a pneumatic roller to roll the area around the manhole which is not rolled by the steel roller.
4. The Contractor shall fog seal or brush emulsion seal on the material placed as backfill on the area around the manhole that was not compacted by the roller. Black sand shall be used to blot out the area it the fog is too heavy.

LEGEND

- Reconstruction Areas
- Leveling Areas
- Cold Planing Areas
- Resurfacing Limits
- —e— Existing Electrical Line
- —E— New Electrical Line
- °ip Existing Joint Pole
- °pp Existing Power Pole
- °emh Existing Electric Manhole
- °EMH Adjusted Elec. MH Frame/Cover
- •EMH New Electric Manhole
- —t— Existing Telephone Line
- —T— New Telephone Line
- °tp Existing Telephone Pole
- °tmh Existing Telephone Manhole
- °TMH Adjusted Tele. MH Frame/Cover
- •TMH New Telephone Manhole
- —jts— Existing Joint Trunking System Line
- —SC— New Signal Corps Line
- —tv— Existing TV Cable
- —TV— New TV Cable
- —s.i.c.— Existing Sandwich Isles Communication Line
- —w—12— Existing 12" Water Line
- —W—12— New 12" Water Line
- °wmh Existing Water Manhole
- °WMH Adjusted Water MH Frame/Cover
- •WMH New Water Manhole
- °av Existing Water Air Valve
- °AV Adjusted Water Air Valve
- •AV New Water Air Valve
- °wv Existing Water Valve Box
- °WV Adjusted Water Valve Box
- •WV New Water Valve Box
- ▫wm Existing Water Meter
- ▪WM Adjusted Water Meter
- ▪WM New Water Meter
- ⊹fh Existing Fire Hydrant
- ⊹FH New Fire Hydrant
- —s—12— Existing Sewer Line
- —S—12— New 12" Sewer Line
- °smh Existing Sewer Manhole
- °SMH Adjusted Sewer MH Frame/Cover
- •SMH New Sewer Manhole
- —g—6— Existing 6" Gas Line
- —G—6— New 6" Gas Line
- °gv Existing Gas Valve Box
- °GV Adjusted Gas Valve Box
- •GV New Gas Valve Box
- °gmh Existing Gas Manhole
- °GMH Adjusted Gas MH Frame/Cover
- •GMH New Gas Manhole
- °mon. Existing Monument
- °MON. Adjusted Monument
- °MON. New Monument
- ---d--24--- Existing 24" Drain Line
- 24" RCP New 24 " RCP Drain Line
- °dmh Existing Storm Drain Manhole
- °SDMH Adjusted Storm Drain MH Frame/Cover
- •SDMH New Storm Drain Manhole
- °CLEANOUT Adjusted Cleanout Frame/Cover
- ⊟gdi Existing Grated Drop Inlet
- cb Existing Catch Basin
- ⊢ts Existing Traffic Sign
- ○hl Existing Highway Lighting Standard
- ▫hlpb Existing Highway Lighting Pullbox
- °tsp Existing Traffic Signal Pole
- •TSP New Traffic Signal Pole
- ▫tspb Existing Traffic Signal Pullbox
- ▪TSPB Adjusted Traffic Signal Pullbox
- ▪TSPB New Traffic Signal Pullbox
- Existing Metal Guardrail
- New Metal Guardrail

ORIGINAL PLAN — DELIVERY PLOTTED BY — DATE
DRAWN BY X
TRACED BY
DESIGNED BY X
QUANTITIES BY
CHECKED BY
NOTE BOOK
JOB NO. X.090

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL NOTES AND LEGEND

KAMEHAMEHA HIGHWAY RESURFACING
Dairy Road to Laiewai Bridge
Federal-Aid Project No. NH-083-1(072)

Date: March, 2014

SHEET No. 2 OF 2 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(072)	2014	5	X

WATER POLLUTION AND EROSION CONTROL NOTES:

A. GENERAL:

1. See Special Provisions 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. In addition, Appendix A lists potential pollutant sources and corresponding BMPs used to mitigate the pollutants.

2. Follow the guidelines in the current HDOT Construction Best Management Practices Field Manual in developing, installing and maintaining the Best Management Practices (BMP) for the project. For any conflicting requirements between the Manual and applicable bid documents, the applicable bid documents will govern. Should a requirement not be clearly described within the applicable bid documents, the Contractor shall notify the Engineer immediately for interpretation. For the purposes of clarification under Note A.2, "applicable bid documents" include the construction plans, standard specifications, Special Provisions, Permits, and the Storm Water Pollution Prevention Plan (SWPPP) when applicable.

3. Follow the guidelines in the Honolulu's City & County "Rules Relating to Soil Erosion Standards and Guidelines" along with applicable Soil Erosion Guidelines for projects on Maui, Molokai, Kauai, and Hawaii.

4. 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 and special provisions, for every day of non-compliance. There is no maximum limit on the amount assessed per day.

5. 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.

6. If necessary, 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. Install the rain gage on the project site in an area that will not deter rainfall from entering the gage opening. Do not install in a location where rain water may splash into rain gage. 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.

7. Submit Site-Specific BMP Plan to the Engineer along with a completed Site-Specific BMP Review Checklist within 30 calendar days of contract execution. The Site-Specific BMP Review Checklist may be obtained from http://www.stormwaterhawaii.com.

B. WASTE DISPOSAL:

1. Waste Materials
Collect and store all waste materials in a securely lidded metal dumpster or roll off container with cover to keep rain out or loss of waste during windy conditions. 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 weekly or when the container is two-thirds full, whichever is sooner. 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, on a weatherproof bulletin board, or other accessible location acceptable to the Engineer. The Contractor shall be responsible for seeing that these procedures are followed. Submit the Solid Waste Disclosure Form for Construction Sites to the Engineer within 30 calendar days of contract execution. Provide a copy of all the disposal receipts from the facility permitted by the Department of Health to receive solid waste to the Engineer monthly. This should also include documentation from any intermediary facility where solid waste is handled or processed.

2. 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.

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.

ORIGINAL PLAN
NOTE BOOK dd/x
No. X/dgn
SURVEY PLOTTED BY
DRAWN BY JL
TRACED BY
DESIGNED BY JL
QUANTITIES BY
CHECKED BY
DATE 2/10/14

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

WATER POLLUTION & EROSION CONTROL NOTES

KAMEHAMEHA HIGHWAY RESURFACING
Dairy Road to Laiewai Bridge
Federal-Aid Project No.NH-083-1(072)

Date: March, 2014

SHEET No. 1 OF 3 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(072)	2014	6	0

WATER POLLUTION AND EROSION CONTROL NOTES (Cont.):

12. Contain, remove, and dispose slurry generated from saw cutting of pavement in accordance with approved BMP practices. Do not allow discharge into the drainage system or State waters.

13. For projects with an NPDES Permit for Construction Activities, immediately initiate stabilizing exposed soil areas upon completion of earth-disturbing activities for areas where earth-disturbing activities have permanently or temporarily ceased. Earth-disturbing activities have permanently ceased when clearing and excavation within any area of the construction site that will not include permanent structures has been completed. Earth-disturbing activities have temporarily ceased when clearing, grading, and excavation within any area of the site that will not include permanent structures will not resume (i.e., the land will be idle) for a period of 14 or more calendar days, but such activities will resume in the future. For construction areas discharging into waters not impaired for nutrients sediments, complete initial stabilization within 14 calendar days after the temporary or permanent cessation of earth-disturbing activities. For construction areas discharging into nutrient or sediment impaired waters, complete initial stabilization within 7 calendar days after the temporary or permanent cessation of earth-disturbing activities. Classification of water at the discharge point may be found in the SWPPP.

14. For projects without an NPDES Permit for Construction Activities, complete initial stabilization within 14 calendar days after the temporary or permanent cessation of earth-disturbing activities.

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	Cleaning Solvents
Detergents	Wood
Paints (enamel and latex)	Masonry Block
Metal Studs	Herbicides and Pesticides
Tar	Curing Compounds
Fertilizers	Adhesives
Petroleum Based Products	

   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.
   d. Keep products in their original containers with the original manufacturer's label.
   e. Do not mix substances with one another unless recommended by the manufacturer.
   f. Whenever possible, use a product up completely before disposing of the container.
   g. Follow manufacturer's recommendations for proper use and disposal.
   h. Conduct a daily inspection to ensure proper use and disposal of materials onsite.

2. Hazardous Material Pollution Prevention Plan
   a. Keep products in original containers unless they are not resealable.
   b. Retain original labels and Safety Data Sheets (SDS), formerly Material Safety Data Sheets (MSDS).
   c. Dispose of surplus products according to manufacturers' instructions and local and State regulations.

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 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 586-4309, and the Hawaii State Hospital Operator at 247-2191 and the Clean Water Branch (DOH-CWB) via email at cleanwaterbranch@doh.hawaii.gov 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.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE 2/10/14
	DRAWN BY JL	
NOTE BOOK dd.nt	TRACED BY	
	DESIGNED BY JL	
No. X.dgn	QUANTITIES BY dd.nt	
	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

WATER POLLUTION & EROSION CONTROL NOTES

KAMEHAMEHA HIGHWAY RESURFACING
Dairy Road to LaiewaiBridge
Federal-Aid Project No. NH-083-1(072)

Date: March, 2014

SHEET No. 2 OF 3 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(072)	2014	7	X

WATER POLLUTION AND EROSION CONTROL NOTES (Cont.):

E. PERMIT REQUIREMENTS:

1. A National Pollutant Discharge Elimination System (NPDES) Permit for Construction Activities of one acre or more of disturbed area is required for this project. If the Contractor requires extra land disturbance, including staging and storage areas, that is not covered by the NPDES Permit obtained by the State, the Contractor shall be responsible for obtaining the required NPDES Construction Activities Permit to cover this additional disturbed area. See Hawaii Administrative Rules Chapter 11-55, Appendix C for definition of land disturbance. The Contractor's attention is directed to the applicable NPDES Permit documents on the bid package compact disc.

2. Comply with all applicable State and Federal Permit conditions. Permits may include, but not limited to the following:

   a. NPDES Permit for Construction Activities

F. SITE-SPECIFIC BMP REQUIREMENTS:

Each BMP below is referenced to the corresponding section of the current HDOT Construction Best Management Practices Field Manual and appropriate Supplemental Sheets. The Manual may be obtained from the HDOT Statewide Stormwater Management Program Website at http://www.stormwaterhawaii.com/resources under Construction Best Management Practices Field Manual. Supplemental BMP sheets are located at http://stormwaterhawaii.com/contractors/contractors_BMPmanual.aspx under Concrete Curing and Irrigation Water.

The requirements for Water Pollution, Dust, and Erosion Control submittals are included in Section 209 of the Hawaii Standard Specifications for Road and Bridge Construction dated 2005 and applicable Special Provisions. A list of pollutant sources and corresponding BMP used to mitigate the pollutants are included in Section 209 of the Special Provisions under Appendix A.

Follow the requirements below:

1. Protect all Drainage Inlets receiving runoff from disturbed areas (SC-2).

2. Contain on-site runoff using Perimeter Sediment Controls
   a. SC-1 Silt Fence
   b. SC-5 Vegetated Filter Strips and Buffers
   c. SC-8 Compost Filter Berm
   d. SC-13 Sandbag Barrier
   e. SC-14 Brush or Rock Filter

3. Control offsite runoff from entering construction area
   a. EC-8 Run-On Diversion
   b. SC-6 Earth Dike
   c. SC-7 Temporary Drains and Swales

4. Incorporate applicable Site Management BMP
   a. SM-1 Employee Training
   b. SM-2 Material Delivery and Storage
   c. SM-3 Material Use
   d. SM-4 Protection of Stockpiles
   e. SM-6 Solid Waste Management
   f. SM-7 Sanitary/Septic Waste Management
   g. SM-9 Hazardous Waste Management
   h. SM-10 Spill Prevention and Control
   i. SM-11 Vehicle and Equipment Cleaning
   j. SM-12 Vehicle and Equipment Maintenance
   k. SM-13 Vehicle and Equipment Refueling
   l. SM-14 Scheduling
   m. SM-15 Location of Potential Sources of Sediment
   n. SM-16 Preservation of Existing Vegetation
   o. SM-18 Dust Control

5. Contain pollutants within the Construction Staging/Storage Area BMP with applicable Perimeter Sediment Controls and Site Management BMP. Include a Stabilized Construction Entrance/Exit (EC-2) for all areas which exit onto a paved street. Restrict vehicle access to these points.

6. Manage Concrete Waste including installing a Concrete Washout Area (SM-5) and properly disposing of Concrete Curing Water (California Stormwater BMP Handbook NS-12 Concrete Curing).

7. Remove saw cut slurry and hydrodemolition water from the site by vacuuming. Provide storm drain protection and/or perimeter sediment controls during saw cutting and hydrodemolition work.

ORIGINAL PLAN

SURVEY PLOTTED BY _____ DATE 2/10/14
DRAFTED BY _____
TRACED BY _____
DESIGNED BY _____
QUANTITIES BY _____
CHECKED BY _____

NOTE BOOK dd&K
No. X.dgn

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

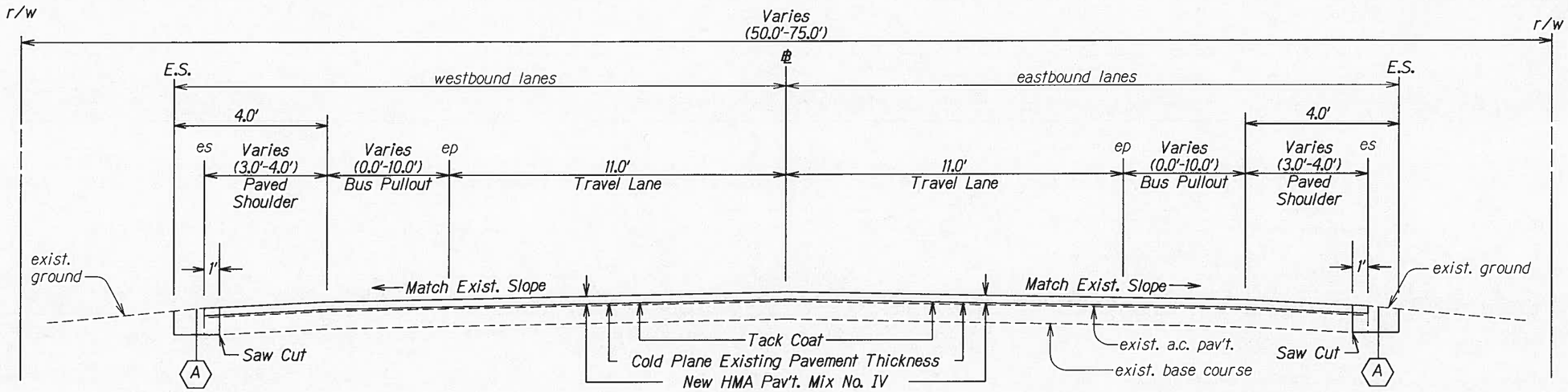
WATER POLLUTION & EROSION CONTROL NOTES

KAMEHAMEHA HIGHWAY RESURFACING
Dairy Road to Laiewai Bridge
Federal-Aid Project No. NH-083-1(072)

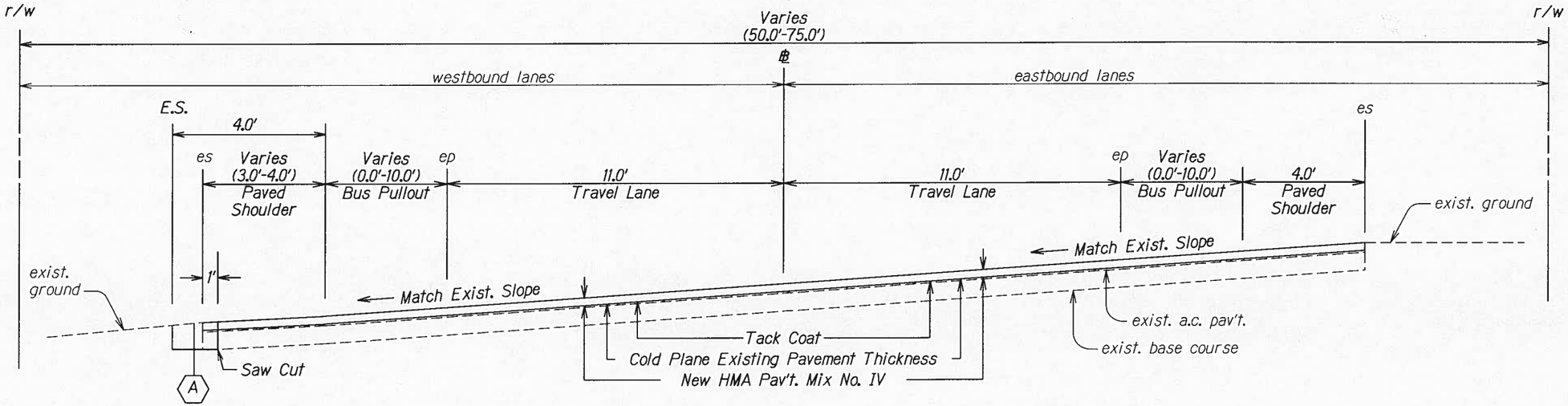
Date: March, 2014

SHEET No. 3 OF 3 SHEETS

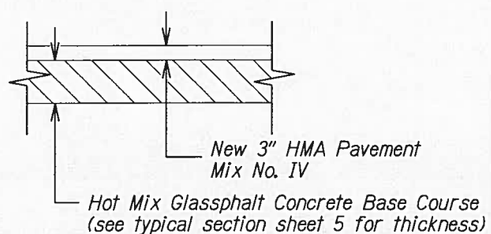
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(072)	2014	0	0



TANGENT SECTION
Scale: NTS



SUPERELEVATION SECTION
Scale: NTS



SHOULDER PAVEMENT SECTION DETAIL (A)
NTS

Note:
1. 3" thick (min.) cold plane and 3" HMA pavement mix no. IV from ℄ Sta. 345+00± to ℄ Sta. 641+44±
2. 3.5" thick (min.) cold plane and 3.5" HMA pavement mix no. IV from ℄ Sta. 642+70± to ℄ Sta. 764+00±
3. For limits of shoulder widening, see plan sheet 13 and 20
4. For limits of Bus Pullouts, see Roadway Plans

ORIGINAL PLAN
SURVEY PLOTTED BY _____ DATE _____
DRAWN BY X . . . . . .
TRACED BY _____
DESIGNED BY X
QUANTITIES BY _____
CHECKED BY _____
NOTE BOOK REFERENCE
No. 24mh90

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL SECTION

KAMEHAMEHA HIGHWAY RESURFACING
Dairy Road to Laiewai Bridge
Federal Aid Project No. NH-083-1(072)

Scale: As Shown Date: March, 2014

SHEET No. 1 OF 5 SHEETS

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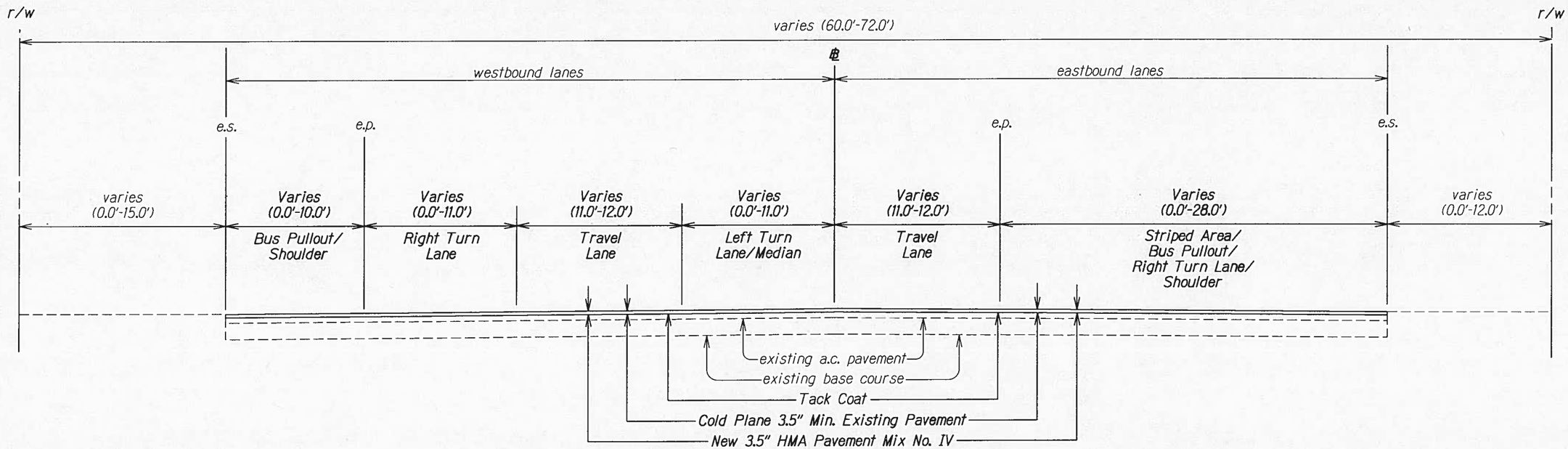
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(072)	2014	0	0



℄ STA. 642+70± to ℄ STA. 666+00±

N.T.S.

SURVEY PLOTTED BY ____ DATE
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
ORIGINAL PLAN
NOTE BOOK
No.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

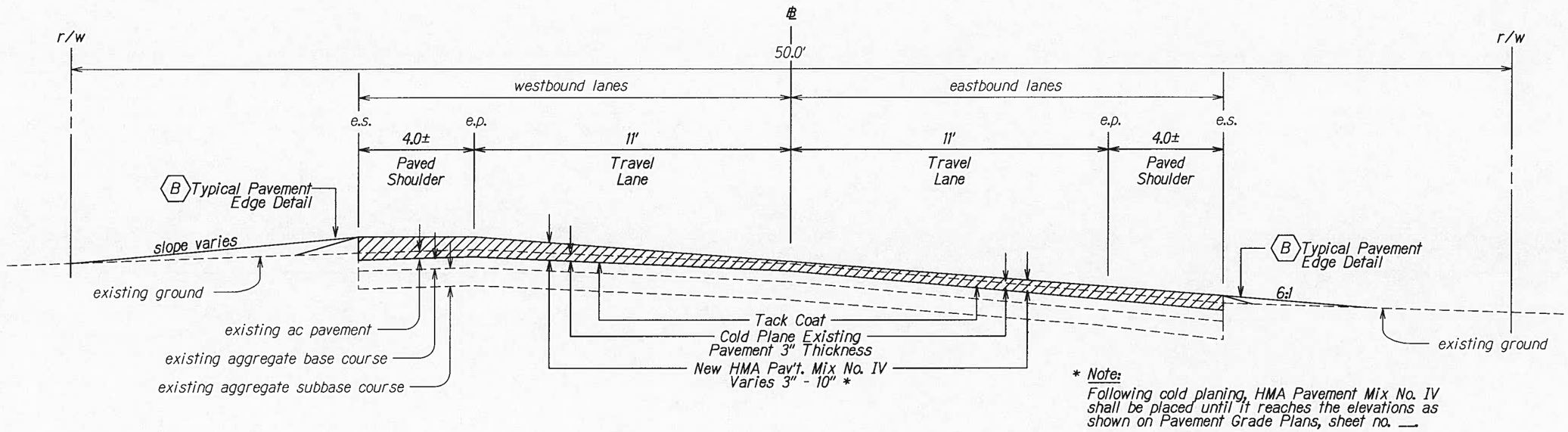
TYPICAL SECTION

KAMEHAMEHA HIGHWAY RESURFACING
Dairy Road to Laiewai Bridge
Federal Aid Project No. NH-083-1(072)

Scale: not to scale Date: August, 2013

SHEET No. 2 OF 5 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(072)	2014	0	0

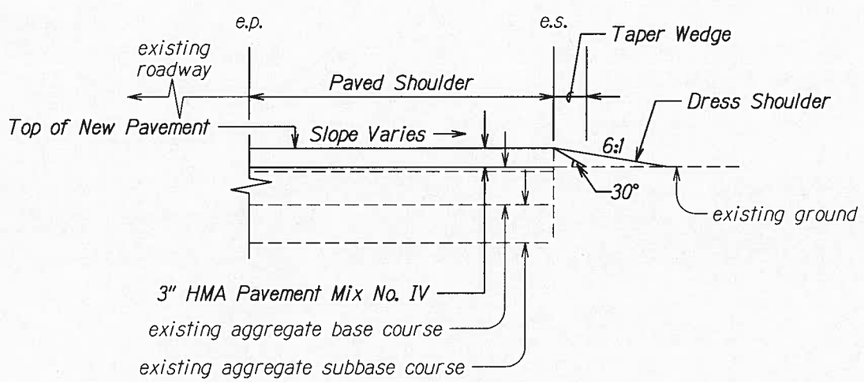


* Note:
Following cold planing, HMA Pavement Mix No. IV shall be placed until it reaches the elevations as shown on Pavement Grade Plans, sheet no. ___.

TYPICAL SUPERELEVATION RESURFACING SECTION

℄ STA. 386+30.44± to ℄ STA. 393+50.42±
℄ STA. 527+89.00± to ℄ STA. 535+02.93±

N.T.S.



TYPICAL PAVEMENT EDGE DETAIL (FOR COLD PLANING PROJECT) (B)

℄ STA. 386+30.44± to ℄ STA. 393+50.42±
℄ STA. 527+89.00± to ℄ STA. 535+02.93±

N.T.S.

Note:
Contractor shall mount a device directly on the paver screed extension to provide a 30° beveled shoulder edge.

ORIGINAL PLAN | SURVEY PLOTTED BY | DRAWN BY | TRACED BY | DESIGNED BY | QUANTITIES BY | CHECKED BY | DATE | NOTE BOOK | NO.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

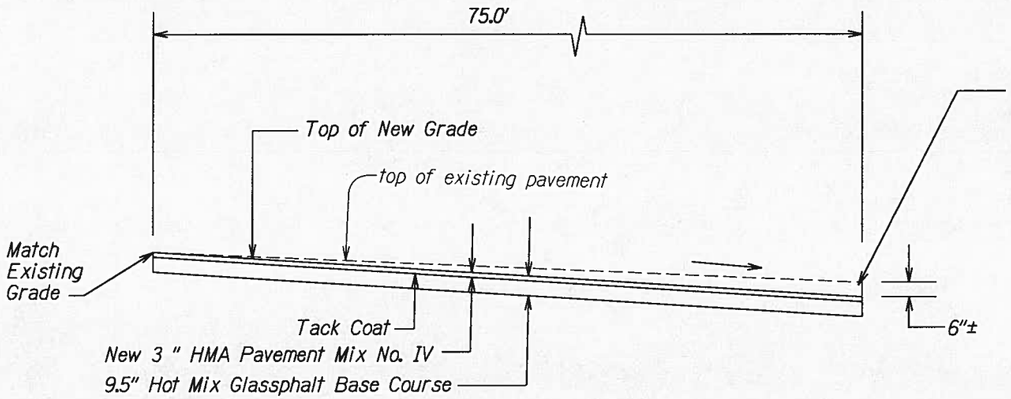
TYPICAL SECTION

KAMEHAMEHA HIGHWAY RESURFACING
Dairy Road to Laiewai Bridge
Federal Aid Project No. NH-083-1(072)

Scale: not to scale Date: March, 2014

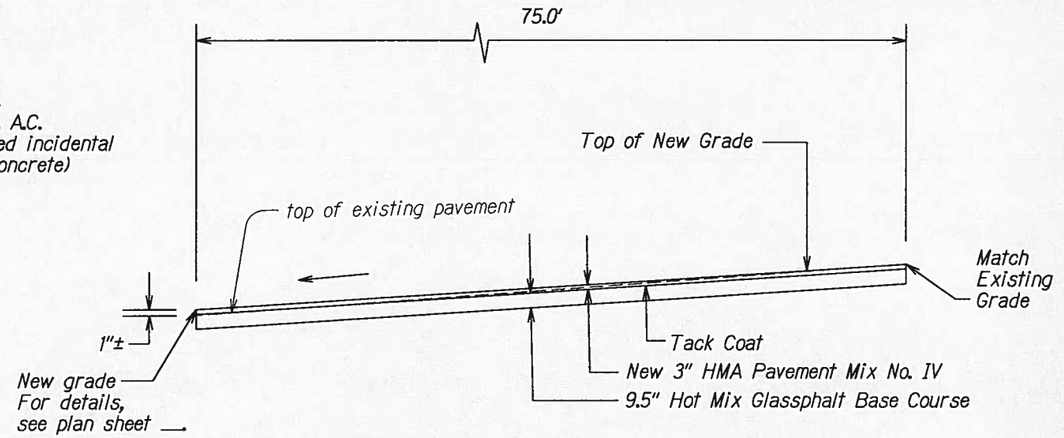
SHEET No. 3 OF 5 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(072)	2014	0	0



℄ STA. 556+77.33± TO ℄ STA. 557+52.33±

N.T.S.

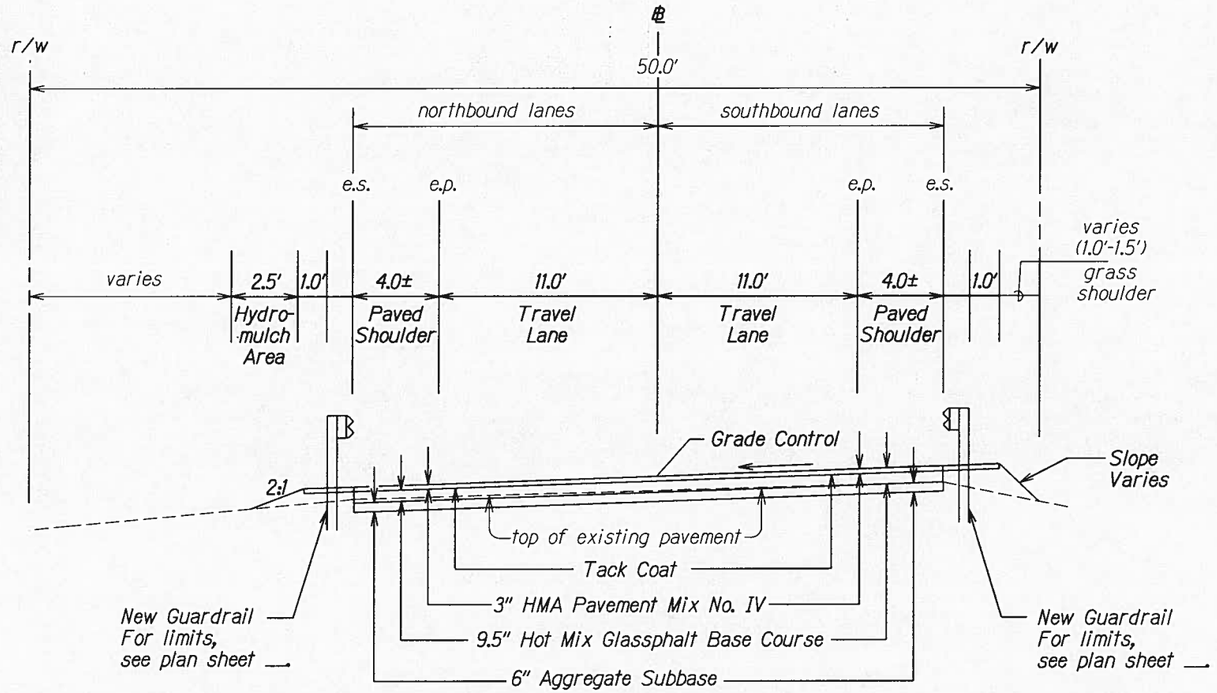


℄ STA. 564+18.05± TO ℄ STA. 564+93.05±

N.T.S.

LONGITUDINAL TRANSITION

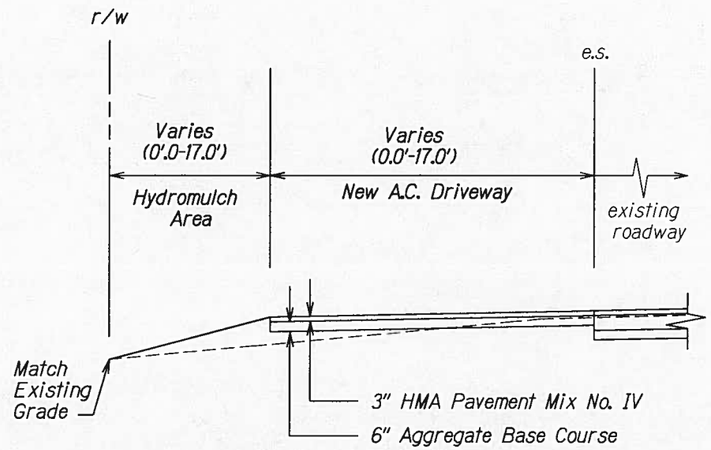
N.T.S.



℄ STA. 557+52.33± to ℄ STA. 560+69.5±

℄ STA. 560+94.5± to ℄ STA. 564+18.05±

N.T.S.



PARTIAL TYPICAL SECTION

℄ STA. 562+70± to ℄ STA. 563+18±

N.T.S.

ORIGINAL PLAN | SURVEY PLOTTED BY | DRAFT BY | TRACED BY | DESIGNED BY | QUANTITIES BY | CHECKED BY | DATE | NOTE BOOK | No.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

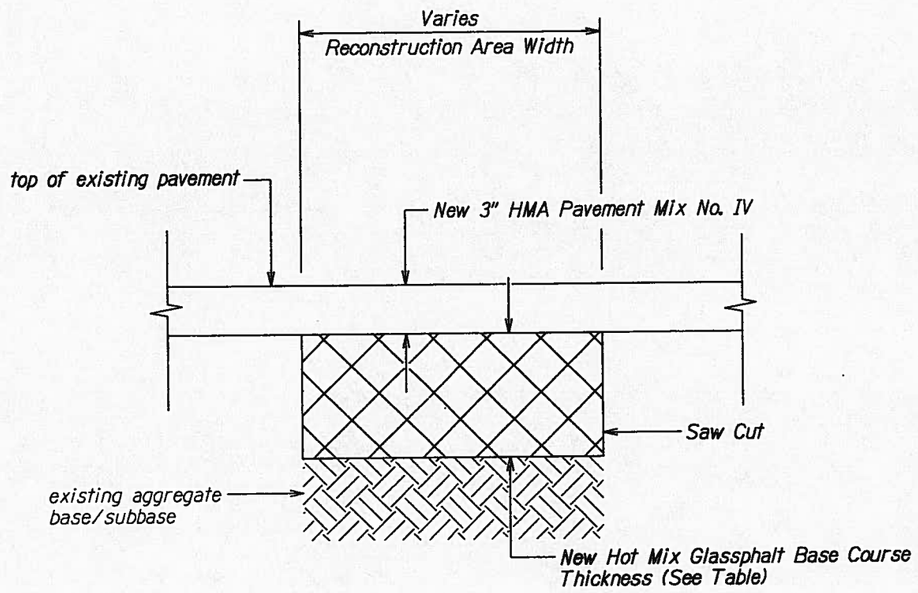
TYPICAL SECTION

KAMEHAMEHA HIGHWAY RESURFACING
Dairy Road to Laiewai Bridge
Federal Aid Project No. NH-083-1(072)

Scale: not to scale Date: March, 2014

SHEET No. 4 OF 5 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(072)	2014	0	0



AC PAVEMENT RECONSTRUCTION DETAIL

Not to Scale

Notes:

a. For reconstruction area schedule, see plan sheet ___.

b. Prior to placement of the asphaltic concrete base, the exposed subbase or subgrade should be recompacted to a dense and unyeilding condition.

c. Reconstructed pavement from in this area should consist of the removal of the surface asphaltic concrete down to the underlying base material and replacement with pavement section above.

PAVEMENT DESIGN FOR RECONSTRUCTION AREAS

@ Station		HMA Pavement Thickness (in.)	Hot Mix Glassphalt Base Course Thickness (in.)	Total Pavement Thickness (in.)
From	To			
345+00±	384+00±	3.0	9.5	12.5
384+00±	432+00±	3.0	4.5	7.5
432+00±	538+70±	3.0	7.0	10.0
538+70±	550+00±	3.0	9.5	12.5
550+00±	624+00±	3.0	9.5	12.5
624+00±	655+30±	3.0	5.0	8.0
655+30±	682+50±	3.0	4.0	7.0
682+50±	692+50±	3.0	9.0	12.0
692+50±	764+00±	3.0	4.0	7.0

ORIGINAL PLAN

SURVEY PLOTTED BY ____ DATE
DRAWN BY ____
TRACED BY ____
DESIGNED BY ____
NOTE BOOK ____
QUANTITIES BY ____
CHECKED BY ____
No. ____

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL SECTION

KAMEHAMEHA HIGHWAY RESURFACING
Dairy Road to Laiewai Bridge
Federal-Aid Project No. NH-083-1(072)

Scale: Not to Scale Date: March, 2014

SHEET No. 5 OF 5 SHEETS

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