

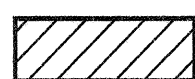
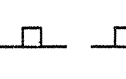
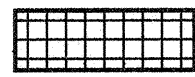


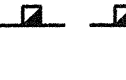
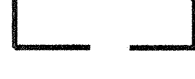
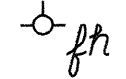
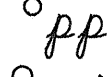
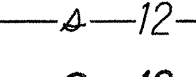


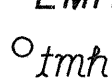
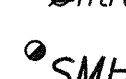


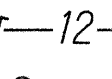

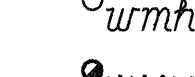

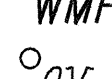



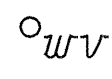
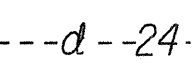

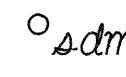


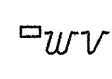
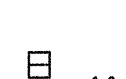


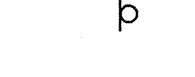



GENERAL NOTES

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	50C-01-00M	2000	3	24

- The scope of work for this project includes reconstructing weakened pavement areas; cold planing; resurfacing; adjusting and/or installing centerline and reference survey monuments; removing existing guardrails; installing new guardrails; removing and installing pavement markings and traffic signs; replacing grates for grated drop inlets; improving drainage systems; and dressing of shoulders.
- 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.
- The Contractor's attention is directed to the following Sections of the Special Provisions : Subsection 107.13 - Public Convenience and Safety; Subsection 107.21 - Contractor's Responsibility For Utility Property And Services; and Section 645 -Traffic Control.
- 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.
- 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.
- The exact locations and limits or areas to be filled with leveling course, excavated, reconstructed and cold planed shall be determined in the field by the Engineer.
- All lanes shall be open to traffic during peak hours from 6:30 A.M. to 8:30 A.M., during afternoon peak hours from 3:30 P.M. to 6:00 P.M. and during off work hours. Only one lane of highway shall be closed at any other time. Failure of the Contractor to open all lanes of traffic during the times specified above shall result in assessment of liquidated damages as specified in Section 108.08 of the Special Provisions.
- The Contractor shall notify the Engineer in writing, two (2) weeks prior to starting paving operations.
- The Contractor shall remove and dispose of all existing raised pavement markers and traffic tapes 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 separately.
- 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.
- 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.
- The Contractor shall provide for access to and from all existing side streets and driveways at all times.
- Trimming and dressing of shoulder, sidewalk and bus turnout shall consist of clearing, grubbing, grading, reshaping and compacting the unpaved shoulders with suitable material as shown on the plans and/or as directed by the Engineer. Suitable materials shall include materials from roadway excavation, including topsoil and cold-planed asphalt concrete therefrom, and if necessary, additional materials from borrow outside the limits of the right of way. This work shall be considered incidental to the various contract items.
- Earth swale shall be graded to drain. This work shall be considered incidental to the various contract items.
- Existing drainage system will be 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.

- The Contractor shall remove and dispose debris and silt from existing culverts, including aprons and outlets, where grates are to be replaced. This work shall be paid for under Item No. 604.4000 - REPLACE GRATE FOR GRATED DROP INLET.
- All saw cutting work shall be considered incidental to Asphalt Concrete Pavement, Mix No. IV and will not be paid for separately.
- Install new Type II Object Marker on all utility poles or trees that are within the State Highway Right-of-Way and within 30 feet of the roadway edge of pavement as directed by the Engineer. Refer to Standard Plan TE-17.
- Prior to his resurfacing operations, the Contractor shall be responsible for locating, preserving and marking all utility & 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.
- 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.
- No section where guardrails have been removed shall be left unshielded at the end of each work day. Open sections shall be shielded by portable physical barriers. Furnishing, placing and maintaining physical barriers shall be considered incidental to the various contract items. See Plan Sheet No. 10 for details.
- All new guardrails shall be single with strong posts unless noted otherwise.
- Removal of Terminal End, Type BCT including removal of the cable assembly and concrete anchor block (1 CY), shall be paid for under Item No. 202.0410 - REMOVAL OF TERMINAL END, TYPE BCT.
- Removal of Terminal End, Type C including disconnection of the guardrail from the anchor block, shall be paid for under Item No. 202.0411 - REMOVAL OF TERMINAL END, TYPE C. NOTE: The existing anchor block and grouted rubble paving shall remain in place.
- Removal of W-beam end sections (flared) , shall be considered incidental to Item No. 202.0421 - REMOVAL OF GUARDRAILS AND STEEL POSTS.
- The Contractor shall secure the services of a Hawaii licensed surveyor to establish control points at the beginning and end of the project, points of intersection, intermediate points at intervals of 1000 linear feet, and all construction stakeout required to complete the job. In addition, Contractor's surveyor shall furnish bench marks and stake out monuments, property lines and right-of-way lines. Payment for surveyor's services shall not be paid for separately but shall be considered incidental to Item No. 613.0110 - Centerline and Reference Survey Monument. NOTE: All centerline and reference survey monuments shall be installed 15 feet offset from the roadway baseline, as shown on the plans.
- All cold plane and surplus selected materials shall remain the property of the State. The Contractor shall transport to and stockpile these materials at the State and County Baseyard, located at Lele Road in Hanapepe. The Contractor shall coordinate with the Maintenance Engineer (Tel. #821-4440) to determine the exact locations for stockpiling the surplus and cold plane materials. Cold plane materials shall be stockpiled separately from other materials. Transporting and stockpiling cold plane material shall be considered incidental to Item No. 652.1000 - COLD PLANING. Transporting and stockpiling surplus selected material shall be considered incidental to Item No. 651.0100 - EXCAVATION FOR RECONSTRUCTION OF WEAKENED PAVEMENT AREAS.

LEGEND

	New A.C. under Guardrail Areas		Existing Metal Guardrail
	Reconstruction Areas		New Metal Guardrail
	Cold Planing Areas		Adjusted and/or Relocated Metal Guardrail
	Resurfacing Limits		Existing Fire Hydrant
	Existing Power Pole		Existing Sewer Line
	Existing Electric Manhole		New 12" Sewer Line
	Adjusted Elec. MH Frame/Cover		Existing Sewer Manhole
	Existing Telephone Manhole		Adjusted Sewer Manhole Frame/Cover
	Adjusted Tel. MH Frame/Cover		New Sewer Manhole
	Existing 12" Water Line		Existing Monument
	Existing Water Manhole		Adjusted or Reconstructed Monument
	Adjusted Water MH Frame/Cover		New Monument
	Existing Water Air Valve		Existing 24" Drain Line
	Adjusted Water Air Valve		Existing Storm Drain Manhole
	Existing Water Valve Box		Adjusted Storm Drain Manhole Frame/Cover
	Adjusted Water Valve Box		Existing Grated Drop Inlet
	Water Valve Box Below Exist. A.C. Pavement (to be Adjusted)		Adjusted Grated Drop Inlet and/or Replace existing Grate
	Existing Water Meter		Existing Catch Basin
	Adjusted Water Meter		
	Existing Traffic Sign		

ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	4-7-00
DRAWN BY	
DESIGNED BY	
CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL NOTES AND LEGEND

KAUMUALII HIGHWAY RESURFACING
Vicinity of Wahiawa Bridge
to Laulea Street
Project No. 50C-01-00M
Date: April, 2000

SHEET No. 1 OF 1 SHEETS