

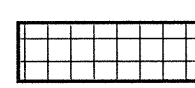

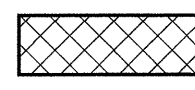



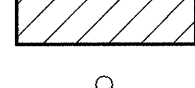









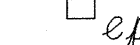









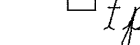














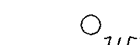
GENERAL NOTES

1. The scope of work for this project includes reconstructing weakened pavement areas; cold planing; resurfacing; adjusting telephone and traffic signal pullboxes and/or manholes, water valve boxes and street survey monuments; adjusting and/or installing grated drop inlets, centerline and reference survey monuments, and loop detector sensing units; repairing bridge joints; removing and installing pavement markings and traffic signs; and dressing of shoulders.
2. The Contractor is reminded of the requirements of Subsection 108.01 - 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 bid.
3. 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.
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.
6. 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.
7. All paving work including cold planing, pavement reconstruction, road resurfacing (including leveling course and finish course), and installation of loop detector sensing units shall be conducted during night time working hours. Night time working hours are specified in Section 104 of the Special Provisions. During night work, the Engineer will permit the Contractor to close only one lane of traffic. During non-working hours, all lanes shall be open to traffic. 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 108.09 of the Special Provisions.
8. The Contractor shall notify the Engineer in writing, two (2) weeks prior to starting paving operations.
9. 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.
10. 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. IV.
11. 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.
12. 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 base material therefrom, and if necessary, additional materials from borrow outside the limits of the right of way. Asphalt concrete removed from cold planing, reconstruction and excavation shall not be used for dressing of shoulder, sidewalk or bus turnout. Trimming and dressing of shoulder shall not be paid for separately but shall be considered incidental to the various contract items.
13. Earth swale shall be graded to drain. This work shall be considered incidental to the various contract items.

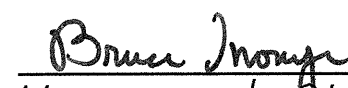
14. Existing drainage system will be functional at all times during construction. The Contractor shall furnish all materials, equipment, labor, tools and incidentals necessary to maintain flow. This work shall be considered incidental to various contract items.
15. The contractor shall provide and maintain 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 the various contract items, and will not be paid for separately.
16. All saw cutting work, including the handling and disposal of the slurry (cooling water and asphalt pavement saw dust) from the saw-cutting work shall be considered incidental to Asphalt Concrete Pavement, Mix No. IV and will not be paid for separately. Slurry from the saw cutting work shall be handled and disposed of in accordance with the Water Pollution Control Note B - Waste Disposal, on Plan Sht. #4.
17. 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.
18. Prior to commencing 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.
19. Prior to his resurfacing operations, the Contractor shall contact the County of Kauai Department of Water Operations Division (Tel. No. 245-5444) and make arrangements for the Department of Water personnel to "tone" for, and mark locations of existing valve boxes, including ones that may have been inadvertently paved over on previous resurfacing projects. Approximate locations of valve boxes that are to be raised to the new finished garde are noted on the plans.
- It shall be the Contractor's responsibility to offset and record locations of the valve boxes as marked by the Department of Water for purposes of adjusting the valve boxes to the new finished grades after completion of his resurfacing operations. The Contractor shall preserve all offset stakes marking the locations of the valve boxes. If offset stakes are damaged or lost, it shall be the Contractor's sole responsibility to survey and re-stake locations of the valve boxes.
- Adjusting water valve boxes that have been paved over on previous resurfacing projects shall be paid for under contract Item No. 604.4551 - Adjusting Water Valve Box.
20. After completion of resurfacing, the Contractor shall conduct tests 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. The Contractor shall notify the Engineer of the ponding test schedule.
21. Contractor shall exercise extreme caution to preserve BENCHMARKS (Survey Monuments). Whenever the center of a Survey Monument is less than three (3) feet from the edge of construction, the Contractor shall retain a Licensed Land Surveyor to reference the location of said Survey Monument.
- Benchmarks that are disturbed or destroyed shall be restored under a Licensed Land Surveyor's direction. Copies of field notes, descriptions and new values of the new benchmark shall be sent to the Department of Transportation, Highways Division, Cadastral Engineering Section, for review and approval prior to construction.
22. The Contractor shall retain the services of a Hawaii licensed surveyor to establish control points at the beginning and end of 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 benchmarks and stakeout 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 or Item No. 614.0120 - Adjusting Standard Street Survey Monument.

23. Any work specified in the contract but not listed separately in the proposal schedule shall be considered incidental to the various contract items, and shall not be paid for separately.
24. All asphalt concrete materials from cold planing operations shall become the property of the State. The Contractor shall deliver the cold-planed asphalt material to the State Highways baseyard in Puhi. Prior to delivering the materials, the Contractor shall contact the Maintenance Engineer to make arrangements for the material delivery. Asphalt material removed by cold planing from roadway reconstruction and roadway excavation areas shall be included in the delivery to the State baseyard. This work shall not be paid for separately, but shall be considered incidental to the various contract items
25. 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 Right-of-Way Branch at Tel. No. 692-7332.
26. All cold planing work shall be followed immediately with paving, temporary striping and re-establishment of the traffic loops before reopening the lanes to traffic. The Contractor may use temporary pole mounted presence detectors to replace any loops taken out of service. The cost for temporary detector shall be considered incidental to pavement work.

LEGEND

	Shoulder Widening/A.C. Swale Construction Areas		Existing Traffic Sign
	Cold Planing Areas		New Traffic Sign
	Resurfacing Limits		Existing Metal Guardrail
	Reconstruction Areas		New Metal Guardrail
	Existing Power Pole		Adjusted Metal Guardrail
	Existing Electric Manhole		Existing Fire Hydrant
	Adjusted Electric Manhole		Existing Sewer Manhole
	Existing Electric Pullbox		Adjusted Sewer Manhole
	Adjusted Electric Pullbox		New Sewer Manhole
	Existing Telephone Manhole		Existing Monument
	Adjusted Telephone Manhole		Adjusted Monument
	Existing Telephone Pullbox		New Monument
	Adjusted Telephone Pullbox		Existing 24" Drain Line
	Existing Cable TV Pullbox		Existing Storm Drain Manhole
	Adjusted Cable TV Pullbox		Adjusted Storm Drain Manhole
	Existing Water Manhole		Existing Grated Drop Inlet
	Adjusted Water Manhole		Adjusted Grated Drop Inlet
	Existing Water Air Valve		New Grated Drop Inlet
	Adjusted Water Air Valve		Existing Fiber Optic Manhole
	Existing Water Valve Box		
	Adjusted Water Valve Box		
	Existing Water Meter		
	Adjusted Water Meter		

APPROVED:


for Manager & Chief Engineer
Department of Water

3/4/05

Date

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
GENERAL NOTES AND LEGEND
<u>KAUMUALII HIGHWAY RESURFACING</u> <u>Lihue Mill Bridge to Puhi Road</u> <u>Project No. 50DE-01-05M</u>
Date: January 2005
SHEET No. 1 OF 1 SHEETS