

GENERAL NOTES




1. The scope of work for this project includes reconstructing weakened pavement areas; cold planing existing pavement; resurfacing; adjusting wafer valve boxes; adjusting and installing centerline and reference survey monuments; removing and installing pavement markers and traffic signs; pavement striping; removing, relocating and adjusting existing metal guardrails; installing new metal guardrails; and dressing shoulders.
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; 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 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.
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. V.
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 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.
13. Earth swale shall be graded to drain. This work shall be considered incidental to the various contract items.
14. The contractor shall provide for access to and from all existing side streets and driveways at all times.
15. 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 various contract items.

16. All saw cutting work shall be considered incidental to Asphalt Concrete Pavement, Mix No. IV and will not be paid for separately.
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. Refere to Standrad Plan TE-17.
18. 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.
19. Prior to commencing his resurfacing operations, the Contractor shall contact the County of Kauai's Department of Water Maintenance Branch (Ph. #245-5544) and make arrangements for Department of Water personnel to "tone" for, and mark locations of existing valve boxes that may have been inadvertently paved over on previous resurfacing projects. Approximate locations of paved over valve boxes that are to be raised to the new finished grade 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.
- Payment for work involved in locating paved over water valve boxes shall not be paid for separately, but shall be considered incidental to Item No. 604.4550 - Adjusting Water Valve Box Frame and Cover.
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.
21. 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. 8 for details.
22. Metal rail and posts at Type C and F Terminal Sections shall be paid for under Item No. 606.3110 - GUARDRAIL, TYPE 3 - SINGLE WITH STEEL POST. Anchor block, cable, rod, grouted rubble paving, anchor plate with all hardware, etc. shall be paid for under Item No. 606.7110 - TERMINAL SECTION, TYPE C or F.
23. Removal and disposal of guardrail, terminal section Types C, F, G, Breakaway Cable Terminal (BCT) and SRT-350, including concrete foundations, shall not be paid for separately, but shall be considered incidental to the various contract items.
24. All new metal guardrails shall be Type 3, single with steel posts unless noted otherwise.
25. Connection to existing guardrail shall be considered incidental to Item No. 606.3110 - GUARDRAIL, TYPE 3 - SINGLE WITH STEEL POST.
26. Shoulder area at bus stop drop off must be a maximum 2% cross slope. Additionally, any route from drop off area to marked crossing, or any other potential pedestrian area must be 2% maximum cross slope. Marked crossings and pedestrian areas are shown on Plan Sht. Nos. 26, 27 & 28.
27. 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, all 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.

28. The Contractor shall be responsible for preserving and recording the locations of all existing centerline and reference survey monuments. This work shall be considered incidental to Item No. 613.0120 - Adjusting Centerline and Reference Survey Monument.
29. All cold plane and surplus selected materials shall remain the property of the State. The Contractor shall transport to and stockpile these materials at Sta. 184+00 o/s Rt. (M.P. 13.35). Provide at least 30 feet of clearance between the stockpile area and the edge of pavement. Cold plane material shall be stockpiled separately from other materials. Transporting and stockpiling cold plane material shall be considered incidental to contract Item No. 652.1000 - COLD PLANING. Transporting and stockpiling surplus selected material shall be considered incidental to contract Item No. 203.0100 - ROADWAY EXCAVATION.

LEGEND

	New Construction Areas		Existing Metal Guardrail
	Cold Planing Areas		New Metal Guardrail
	Reconstruction 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)		Existing Catch Basin
	Existing Water Meter		
	Adjusted Water Meter		
	Existing Traffic Sign		

6/08/99		Revised General Note No. 12
		Added General Note No. 29
		Revised Legend
DATE	REVISION	
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION		
<u>GENERAL NOTES AND LEGEND</u>		
<u>KUHIO HIGHWAY RESURFACING</u>		
<u>Vicinity of Kumukumu to Aliomanu Road</u>		
<u>Project No. 56BC-01-99M</u>		
Date: April, 1999		
SHEET No. 1 OF 1 SHEETS		