


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	50D-01-11M	2012	ADD.3	31


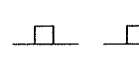



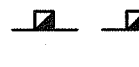

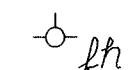
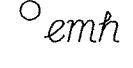
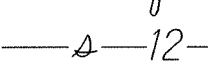

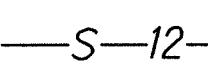
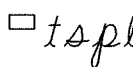
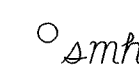
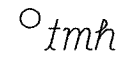



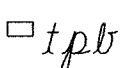

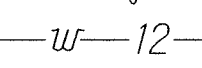





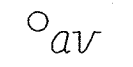


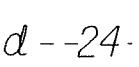
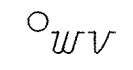
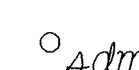


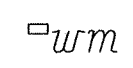





GENERAL NOTES



- The scope of work for this project includes reconstructing weakened pavement areas; cold planing; resurfacing; reconstructing paved shoulders; adjusting utility boxes; relocating utility poles; extending a pipe culvert; constructing a concrete headwall; and installing milled rumble strips, guardrails, pavement markings and traffic signs.
- The Contractor is reminded of the requirements of Subsection 105.16 - Subcontracts.
- The Contractor's attention is directed to the following Sections of the Special Provisions: Subsection 107.06 - Contractor Duty Regarding Public Convenience; Subsection 104.11 - Utilities and Services; and Section 645 - Work Zone 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 excavated, reconstructed and cold planed shall be determined in the field by the Engineer.
- The Contractor shall notify the Engineer in writing, two (2) weeks prior to starting paving operations.
- All lanes shall be open to traffic during the hours from 5:00 A.M. to 8:00 P.M. Only one lane of highway shall be closed at any other time. No  Nightwork shall be performed from September 15 through December 15 due to the Peak Shearwater Fledgling Season. Night time working hours are specified in Section 107 of the Special Provisions. 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.
- 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 Item 401.0400 - Hot Mix Asphalt Concrete Pavement, Mix No. IV and will not be paid for separately.
- 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.
- 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 roadway excavation shall not be used for dressing of shoulder, sidewalk or bus turnout. This work shall be considered incidental to the various contract items.
- The Contractor, at his own expense shall hydro-mulch and maintain per Section 641 of the HDOT Standard Specification all areas disturbed by his operations.
- 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 various contract items.
- The Contractor shall provide 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 the various contract items, and will not be paid for separately.
- All saw cutting work shall be considered incidental to Item 401.0400 - HMA Pavement, Mix No. IV and will not be paid for separately.

- 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.
- 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.
- 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.
- All new reference survey monuments shall be set under a Licensed Land Surveyor's direction. Copies of field notes, descriptions and values of the new survey monuments shall be sent to the Department of Transportation, Highways Division, Cadastral Engineering Section, for review and approval prior to construction.
- Any work specified in the contract but not listed separately in the proposal schedule shall be considered incidental to other various contract items and shall not be paid for separately.
- All asphalt concrete materials from cold planing, reconstruction and roadway excavation operations shall become the property of the State. The Contractor shall deliver these materials to the Lihue Airport's baseyard stockpile area. The Contractor shall separate the clean cold-planed material from the cold-planed material mixed with base course. This work shall be considered incidental to the various contract items.
- 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 Division at telephone no. 241-3000.
- Prior to commencing his operations, the Contractor shall contact the County of Kauai, Department of Water Operations Division (Phone No. 245-5444) and make arrangements for the Department to locate and mark the existing water facilities within the project limits, such as waterlines, valve boxes and manhole frame/covers (including ones that may have been inadvertently paved over on previous resurfacing projects). The tops of the existing valve boxes, manhole frame/covers, etc., shall be adjusted to match the new finished grades noted on the construction plans.
- It shall be the Contractor's responsibility to offset and record locations of the valve boxes and manhole frame/covers as marked by the Department of Water for the purposes of adjusting to the new finish grade. The Contractor shall preserve all offset stakes marking the locations of the valve boxes and manhole frame/covers. If offset stakes are damaged or lost, it shall be the Contractor's sole responsibility to survey and re-stake the locations of the valve boxes and manhole frame/covers.
- All workers within the State right-of-way who are exposed to either vehicles using the roadway or to construction equipment shall wear high-visibility safety apparel that meets the Performance Class 2 or 3 requirements of ANSI/ISEA 107-2004. "Workers" is defined as people on foot whose duties place them with the State right-of-way, such as, but not limited to construction and maintenance forces, equipment operators, survey crews, utility crews, responders to incidents (e.g., EMT and firemen), and law enforcement personnel directing traffic, investigating accidents, handling lane closures and obstructed roadways.

- Removal and disposal of existing traffic signs shall be considered incidental to various contract items.
- Moveable steel barriers can be used in lieu of portable concrete barriers, if project conditions permit installation in accordance with manufacturer's recommendations. Furnish and install moveable steel barriers and portable concrete barriers to meet NCHRP 350 TL-3 or better requirements, no matter what work zone speed limit is established. Moveable Steel Barrier shall conform to the requirements of the Special Provisions, Section 695 - Moveable Steel Barriers. Furnishing, installing and maintaining moveable steel barrier shall be paid under Item No. 694.0100 - Contractor-Furnished Portable Concrete Barrier.
- Applicable crash cushions (TL-3 or better) that have been tested and are suitable end treatments for HDOT accepted moveable steel barriers shall be used. This work shall be paid under Item No. 694.0200 - Inertial Barrier Module.

LEGEND

	Cold Planing Areas		Existing Metal Guardrail
	Reconstruction Areas		New Metal Guardrail
	Resurfacing Limits		Adjusted and/or Relocated Metal Guardrail
	Existing Power Pole		Existing Fire Hydrant
	Existing Electric Manhole		Existing Sewer Line
	Adjusted Elec. MH Frame/Cover		New 12" Sewer Line
	Existing Traffic Signal Pullbox		Existing Sewer Manhole
	Existing Telephone Manhole		Adjusted Sewer Manhole
	Adjusted Tel. MH Frame/Cover		New Sewer Manhole
	Existing Telephone Pullbox		Existing Monument
	Existing 12" Water Line		Adjusted Monument
	Existing Water Manhole		New Monument
	Adjusted Water MH Frame/Cover		Existing 24" Drain Line
	Existing Water Air Valve		Existing Storm Drain Manhole
	Adjusted Water Air Valve		Adjusted Storm Drain Manhole
	Existing Water Valve Box		Existing Grated Drop Inlet
	Adjusted Water Valve Box		New Grated Drop Inlet
	Existing Water Meter Box		Adjusted/Reconstructed Drain Inlet or Replaced Steel Grate
	Adjusted Water Meter Box		
	New Type "X" Water Meter Box		
	Existing Traffic Sign		
	New Traffic Sign		

4/11/12	 Add Notes Nos. 27 & 28 - to General Notes
4/11/12	 - Revised General Note # 8
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION  <b>GENERAL NOTES &amp; LEGEND</b>  <u>KAUMUALI'I HIGHWAY RESURFACING</u> <u>Kipu Road to Huleia Bridge</u> <u>Proj. No. 50D-01-11M</u>  Scale: NA Date: January 2012 SHEET No. 1 OF 1 SHEETS	