

GENERAL NOTES

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	139A-01-05M	2007	3	106

LEGEND

	Resurfacing Limits
	Existing Joint Pole
	Existing Power Pole
	Existing Anchor Pole
	Existing Electric Manhole
	Existing Telephone Pole
	Existing Telephone Manhole
	Existing Water Manhole
	Adjusted Water MH Frame/Cover
	Existing Water Valve Box
	Adjusted Water Valve Box
	Existing Water Meter
	Adjusted Water Meter
	Existing Fire Hydrant
	Adjusted Fire Hydrant
	Existing Monument
	Adjusted Monument
	Existing Grated Drop Inlet
	Existing Traffic Sign With 1 Post
	New Traffic Sign With 1 Post
	Existing Traffic Sign With 2 Posts
	New Traffic Sign With 2 Posts
	Existing Highway Lighting Standard
	Existing Street Lamp Pullbox
	Existing Single Metal Guardrail
	New Single Metal Guardrail
	Existing Fence
(N.I.C.)	Not In Contract

- This project includes cold planing of existing roadway; paving the travelway; adjusting and reconstructing reference survey monuments; replacing and installing signs, pavement striping, and reflector markers; removing existing a.c. and concrete sidewalk, curb ramps, hand rails, and sidewalk culverts; constructing new accessible curb ramps, hand rails, sidewalk, driveways, curb, and sidewalk culverts; installing new accessible pedestrian push buttons, pedestals, and loop detectors, adjusting water manhole, meter boxes, and valve boxes; constructing new water main lines and removing existing water main lines; and relocating existing traffic signal boxes and utility boxes.
- The Contractor is reminded of the requirements of Subsection 105.16 - 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.
- 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(A) - Contractor's Duty to Coordinate Utility Services, and Section 645 - Traffic Control.
- The Contractor shall notify the State in writing, two (2) weeks prior to starting paving operations.
- 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 the 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 reconstructed and cold planed shall be determined in the field by the Engineer.
- Preformed Pavement Marking Tape shall be removed prior to resurfacing. Removal shall be by scraping, grinding or other method approved by the Engineer. Payment shall be incidental to HMA Pavement, Mix No. IV.
- The Contractor shall remove and dispose of all existing raised pavement markers prior to the overlaying of Asphalt Concrete. This work shall be considered incidental to HMA Pavement, Mix No. IV.
- Smooth riding connections shall be constructed at all limits of resurfacing including the beginning and end of project, side streets and driveways as shown on the plans and/or as directed by the Engineer.
- Existing drainage system will be functional at all times during construction 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.
- Contractor shall provide for access to and from existing side streets and driveways at all times.
- All saw cutting work shall be considered incidental to HMA Pavement, Mix No. IV and will not be paid for separately.
- Initial preparation of shoulder areas shall be done by the Contractor. Shoulder preparation shall consist of clearing, grubbing, grading, reshaping and compacting the unpaved shoulders with suitable excavated material from roadway reconstruction as shown on the plans and/or as directed by the Engineer. Contractor shall also be responsible for finish rolling and maintaining the shoulders until project completion. This work shall be considered incidental to HMA Pavement, Mix No. IV.
- Unprotected pavement dropoffs greater than 2" shall not be allowed during non-working hours, except where approved by the Engineer in writing.
- Public Notice is required for lane closures. Contractor shall submit notice to the Engineer for approval a minimum of three weeks prior to publication. Pre-approval of notice, with dates left blank, is permissible.
- Contractor shall mark the backs of all signs using labels and equipment provided by the State. Payment to be incidental to various Contract Items.
- Cold-planing of 50-ft. transitions at project limits shall be considered incidental to HMA Pavement, Mix No. IV.
- Contractor shall maintain at least one paved shoulder free and clear of debris for pedestrian and bicycle traffic at all times.
- The Contractor's attention is called to Subsection 407.03 requiring undiluted tack coat be applied prior to paving.
- Excavated materials not used for fill or dressing purposes will be considered the property of the State and stockpiled as directed by Engineer.
- The Contractor shall adhere to all the conditions of the Underground Injection Control (UIC) permit for the subject project. Copies of the approved permit may be acquired from the Hawaii District Office at 50 Makaala Street.
- The Contractor shall provide and maintain a temporary pedestrian-safe and easily accessible route or detour with barricades in or near the work zone. This temporary route or detour shall be stable, firm and slip-resistant and shall be American With Disabilities Act compliant. This work shall be incidental to all contract items and will not be paid for separately.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
DESIGNED BY		
QUANTITIES BY		
CHECKED BY		

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
GENERAL NOTES
OLD KEA'AU-PAHOA ROAD RESURFACING
KEA'AU TO KEAAU HIGH SCHOOL
PROJECT NO 139A-01-05M
Scale: None Date: Nov., 2004
SHEET No. 1 OF 2 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	139A-01-05M	2007	4	106

WATERLINE NOTES:

1. All work shall be done according to the Water System Standards, State of Hawaii, dated 2002.
2. The Contractor shall inform the D.W.S. Engineer 72 hours prior to the beginning of any waterline work and one week prior to any connection, chlorination, shut-off or relocation work.
3. All work, equipment, and materials furnished by the D.W.S. shall be paid for by the Contractor.
4. All existing waterlines, waterline appurtenances and other utility locations shown on the plans are obtained from the latest reliable sources. The Contractor shall be responsible to verify the exact location of all utilities in the field and shall bear all cost for damages done during the contract period.
5. All hook-ups to existing waterlines shall be done by the Department of Water Supply. The Contractor shall provide all excavation, backfill, road repair, traffic control, landscaping, etc.
6. Where water shut off of more than 3 hours becomes necessary, the Contractor, at his own cost, shall provide a temporary by-pass line. The by-pass size shall be determined by the D.W.S. Engineer. If necessary, the D.W.S. Engineer may require a by-pass line, regardless of the expected water shut off period.
7. Minimum horizontal clearance between waterline and other utilities shall be 8-feet for road right-of-ways of 50 feet or less, minimum vertical clearance between waterline and other utilities shall be 12-inches provided the other utility is concrete jacketed and 18-inches if no concrete jackets are used. In all applicable instances, the waterlines shall be at a grade higher than other utilities. Minimum horizontal clearance between waterline and other utilities shall be 10-feet for road right-of-ways of more than 50-feet.
8. All fittings (Class 250) and all gate valves (Class 200) shall be ductile iron, with mechanical joints unless otherwise specified. Butterfly valves shall be class 250 with epoxy coated interior unless otherwise specified.
9. The waterline shall be tested at a minimum of 225 P.S.I. or one and a half times the static pressure at the low point under D.W.S. supervision just prior to paving the roadways.
10. The Contractor shall be responsible for the chlorination of the water system and shall bear all cost. The person engaged to do the chlorination work must have the appropriate license to perform the work in the State of Hawaii.
11. All service laterals shall be soft copper, type "K", with brass fittings.
12. Pipe cushion for copper pipes shall be No. 4 fine, manufactured sand.
13. Solder and flux used shall contain no more than 0.2% lead.
14. Service lateral(s) shall be flushed by the Contractor under D.W.S. supervision.
15. Services within the improvement areas requiring a Department of Water Supply (D.W.S.) approved backflow prevention assembly shall have one. Its installation will be the responsibility of the service owner in accordance with D.W.S. Standard Detail No. V9.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	11
Stamp: <i>Shirley L. Ligon</i>	CHECKED BY	
Stamp: <i>Shirley L. Ligon</i>	QUANTITIES BY	

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
<u>GENERAL NOTES</u>	
<u>OLD KEA'AU-PAHOA ROAD RESURFACING</u>	
<u>KEA'AU TO KEAAU HIGH SCHOOL</u>	
<u>PROJECT NO 139A-01-05M</u>	
Scale: None	Date: Nov., 2004
SHEET No. 2 OF 2 SHEETS	