

GENERAL NOTES

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII | HAW. | ARR-0480(3) | 2009 | 3 | 35 |

1. The scope of work includes resurfacing existing pavement; adjusting guardrail posts; cold planing; installation of signs and pavement markings; cleaning of culverts; adjusting manholes, monuments, replace existing guardrail end terminals, drainage improvements, excavation, embankment and all incidental work.
2. The Contractor's attention is directed to Subsection 107.13 - Public Convenience and Safety; Section 645 - Traffic Control and Subsection 104.04 Maintenance of Traffic.
3. 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.
4. 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.
5. The exact locations and limits or areas to be filled with leveling course, reconstructed and cold planed shall be determined in the field by the Engineer.
6. Prior to resurfacing, the existing surface shall be cleaned as described in Section 310 of the Standard Specifications and as amended. Payment shall be considered incidental to Item No. 401.0400 - Hot Mix Asphalt (HMA) Pavement.
7. The Contractor shall notify the State in writing, two (2) weeks prior to starting paving operations.
8. The Contractor shall remove and dispose of all existing raised pavement markers prior to the overlaying of Hot Mix (HMA) Pavement. This work shall be considered incidental to Hot Mix (HMA) Pavement and will not be paid for separately.
9. All holes, depressions, and wheel ruts and leveling areas as shown on the plans shall be filled and compacted with Asphalt Concrete Pavement, Mix No. V leveling course prior to resurfacing.
10. Unless directed by the Engineer, connections shall be cold planed at all limits of resurfacing including the beginning and end of project, connecting approaches, side streets and driveways.
11. Dressing shoulder, shall consist of clearing, grubbing, grading, reshaping and compacting the unpaved shoulders with suitable excavated material as shown on the plans and/or as directed by the Engineer. This work shall be considered incidental to the various contract items. Shoulder areas without guardrails shall be dressed at 6:1 slope (max.) unless shown on plans or directed by the Engineer.
12. Existing drainage system will be functional at all times during construction. The Contractor is to furnish materials, equipment, labor, tools and incidentals necessary to accomplish maintenance of flow, the cost of which shall be considered incidental to the various contract items.
13. The Contractor shall provide for safe access to and from all existing driveways and streets at all times.
14. All saw cutting of existing pavement shall not be measured or paid for separately, but shall be considered incidental to various contract items.

15. Unless directed or approved by the Engineer, staggered paving resulting in longitudinal dropoff will not be permitted. In case of emergency, transition wedge with 10:1 slope shall be constructed along the longitudinal joint. Furthermore, temporary markings consisting of double, 4-inch yellow reflective tape with Type "D" markers at 20' o.c. shall be installed. Prior to resuming paving, the transition wedge shall be removed by saw cutting. Furnishing, paving and removing the transition wedge will not be paid for separately but will be considered incidental to Hot Mix Asphalt (HMA) Pavement.
16. At the end of each paving day, transverse joint must be constructed to provide a smooth riding connection. Transition wedge shall be constructed at 10:1 slope or flatter. Prior to resuming paving, the transition wedge shall be removed by saw cutting. Furnishing, paving and removing the transition wedge will not be paid for separately but will be considered incidental to Hot Mix Asphalt (HMA) Pavement.
17. Resetting or adjusting of existing guardrail heights shall include adjustment of terminal sections including foundations, etc. to required height.
18. Smooth riding connections shall be constructed at all limits of resurfacing including the beginning and end of project, connecting approaches and side streets as shown on the plans and/or as directed by the Engineer.
19. In cold planing the pavement over the structure, the Contractor shall exercise care not to damage any portion of the structure, specially the structure deck, joints, drain pipes or reinforcement. Any damage to the structure during the cold planing operation shall be repaired by the Contractor at his own expense. Repair work shall be as directed by the Engineer. The Contractor shall verify the existing pavement thickness by hand digging at various locations. This work shall be considered incidental to Cold Planing.
20. Contractor shall adjust pipe casings of existing centerline survey monument whether shown or not on the plans, in accordance with Standard Plan D-07 or any other method as directed by the Engineer to suit field condition. Contractor to verify existing conditions prior to construction. Adjustment of centerline monument will be paid for at the Contract Unit Price regardless of method used. Contractor shall clean existing monuments to expose survey pins.
21. The Contractor shall construct shoulder and install guardrail only one side of the highway a time. Guardrail sections shall be installed complete with guardrail terminals before moving on to new location. No section of incomplete guardrail shall be left unshielded at the end of each work day.
22. Where new guardrail areas, shoulder shall be grubbed, graded and paved as shown on the plan. Paved shoulder widths shall be determined in the field and approved by the Engineer.
23. Removal of guardrails and posts will not be paid for separately. Materials that will be removed shall be delivered to State Highways baseyard at Molokai. These work will not be paid for separately but shall be considered incidental to guardrail pay items.
24. Whenever "FLEAT-350" is noted on these plans, it means "Flared Energy Absorbing Terminal". See Plan Sht. No. 8 for details.
25. Prior to pounding guardrail posts, Contractor shall verify the locations of all existing underground facilities, structures, manholes, etc..

26. Contractor shall install object markers on all trees and utility poles are within the State Highway right-of-way. (See Std. Plan TE-17)

LEGEND

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| | Leveling Areas |
| | Cold Planing Areas |
| | Resurfacing Limits |
| | Existing Power Pole |
| | Existing Telephone Pole |
| | Existing Water Manhole |
| | Adjusted Water Air Valve MH Frame/Cover |
| | Existing Water Valve Box |
| | Existing 12" Water Line |
| | Adjusted Water MH Frame/Cover |
| | Existing Water Air Valve |
| | Adjusted Water Valve Box |
| | Existing Water Meter |
| | Existing Fire Hydrant |
| | Existing Standpipe |
| | Existing 24" Drain Line |
| | Existing Sewer Manhole |
| | Adjusted Sewer MH Frame/Cover |
| | Existing Monument |
| | Adjusted Monument |
| | Existing Grated Drop Inlet |
| | Existing 24" Storm Drain Manhole |
| | Adjusted Storm Drain MH Frame/Cover |
| | Existing Catch Basin |
| | Existing Traffic Sign With 1 Post |
| | Existing Traffic Sign With 2 Posts |
| | Existing Single Metal Guardrail |
| | New Single Metal Guardrail |
| | Existing Fence |
| | RM-3 |
| | Type II Object Markers |
| | Right of Way |
| | Existing Highway Lighting Standard |
| | Existing Fiber Optic Manhole |

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL NOTES AND LEGEND

PUUPEELUA AVENUE RESURFACING
Maunaloa Highway to Farrington Avenue and
FARRINGTON AVENUE RESURFACING
Puupeelua Avenue to Kalae Highway
Federal-Aid Project No. ARR-0480(3)
Date: February, 2009