

GENERAL NOTES

1. The project includes resurfacing existing pavement; cold planing; pavement reconstruction; adjusting ~~manhole covers and monuments~~; striping; installing signing and pavement markings; ~~cleaning of culverts~~.
2. The Contractor shall remove and dispose of all existing raised pavement markers, traffic tapes, and epoxy adhesives prior to overlaying of Asphalt Concrete. This work shall be considered incidental to Asphalt Concrete Pavement, Mix No. IV and will not be paid for separately.
3. 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 the various contract items.
4. As shown on the plans or directed by the Engineer, a smooth riding transition shall be provided at the beginning and end of the project, at side streets, driveways, between all pavement areas used by public traffic during each construction phase, and between transition of construction phases. Payment for this work shall be made under Item No. 401.0100, A.C. Pavement, Mix No. IV.
5. The Contractor's attention is directed to the following Sections of the Special Provisions: Subsection 104.09 - Maintenance of Traffic; Subsection 104.11 - Utilities and Services; Subsection 107.06 - Contractor Duty Regarding Public Convenience and Section 645 - Traffic Control.
6. Saw-cutting of existing pavement shall not be measured or paid for separately, but shall be considered incidental to cold planing.
7. All lanes shall be open to traffic during the morning peak hours from 6:30 a.m. to 8:30 a.m. and during afternoon peak hours from 3:30 p.m. to 6:00 p.m. and off work hours. See Special Provisions Section 645 (Work Zone Traffic Control).
8. The existence and location of underground utilities, manholes, monuments, pullboxes, traffic signal loops and structures as shown on the plans are from the latest available data but accuracy is not guaranteed. The encountering of other obstacles during the course of the work may be possible. The Contractor shall be held liable for any damages incurred to the existing facilities as a result of his operations or shall not be disturbed during cold planing and/or pavement reconstruction. All damaged portions shall be replaced on accordance with the Standards and Specifications of the State and/or the affected utility company.
9. The exact limits of areas to be reconstructed shall be determined in the field by the Engineer. The depth of excavation for reconstruction shall be the reconstruction thickness minus the overlay thickness as designated on the plans. The excavated areas shall be reconstructed with Plant Mix Glassphalt Concrete Base Course prior to resurfacing.
10. The Contractor shall notify the State, in writing, two weeks prior to starting paving operations.

11. All construction signs shall be left in place until all construction items have been completed. Contractor shall obtain prior approval from the Engineer to remove construction signs.
12. The Contractor shall reference all existing pavement markings prior to resurfacing. Final placement of the new pavement markings shall be as approved by the Engineer. Payment for this work shall be considered incidental to new pavement markers and striping. See Standard Detail, TE 30.
13. Dressing of shoulder 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. 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 the plans or directed by the Engineer.
14. Existing drainage system will be functional at all times during construction. The Contractor is to furnish materials, equipment, labor, tools and incidents necessary to accomplish maintenance of flow, the cost of which shall be considered incidental to the various contract items.
15. All manhole frames and covers affected by the resurfacing shall be adjusted to the new grades as directed by the Engineer.
16. Cold planed 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 and/or as directed by the Engineer. Exact locations shall be determined in the field by the Engineer.
17. All signs shall be of standard sizes unless specified. The sizing for each corresponding sign designation can be found in the Standard Plans. The intent here is to replace all existing signs with the same sign. The Contractor shall verify the sign sizes with the Engineer.
18. At the end of each day's work and night's work, the Contractor shall remove all equipment and other obstructions to permit free and safe passage of public traffic.
19. Avoidance and minimization measures and to avoid impacts to listed species; Blackburn's sphinx moth, Hawaiian hoary bat and seabirds; pursuant to this programmatic consultation, the following measures must be implemented:

To avoid impacts to listed seabirds, nighttime construction should be avoided during the seabird fledging period, September 15 through December 15. If the nighttime construction occurs during other times of year, all lighting should be shielded and directed toward the ground to avoid attracting adult seabirds as they travel from the ocean to their breeding areas. NOTE: nighttime construction may occur on the island of Oahu during the breeding season; however, lights should be shielded and directed toward the ground.

To avoid impacts to the Hawaiian hoary bat, trees and shrubs taller than 15 feet will not be trimmed or cleared between June 1 and September 15 (for projects that are federally funded).

Since projects will be restricted to paved surfaces that are free of vegetation, impacts to the Blackburn's sphinx moth from shoulder improvements on the islands of Hawaii and Maui, will be negligible.







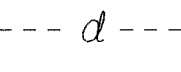
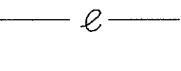
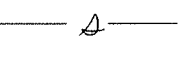
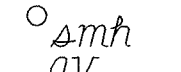
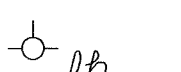
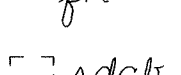
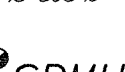
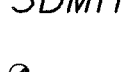


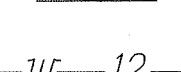
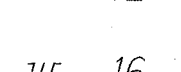
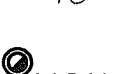
No utilities will be moved or realigned.

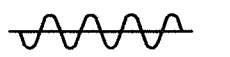
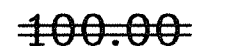
No highways lighting will be installed or replaced.

All work will occur on existing roadways or within paved portion of the rights-of-way.

As part of a public outreach program, framed photos containing brief descriptions of the Hawaiian hoary bat, Hawaiian petrel, Newell's shearwater and Blackburn's sphinx moth (preferably on a Nicotiana plant) will be hung in common-use areas of HDOT district offices.

LEGEND

-  Reconstruction Areas
-  Cold Planing Areas
-  Resurfacing Limits
-  Existing Guy Pole
-  Existing Joint Pole
-  Existing Power Pole
-  Existing Drain Line
-  Existing Electrical Line
-  Existing Sewer Line
-  Existing Sewer Manhole Air Valve
-  Existing Fire Hydrant
-  Existing Storm Drain Catch Basin
-  Adjusted Storm Drain MH Frame/Cover
-  Adjusted Sewer MH Frame/Cover
-  Existing Single Metal Guardrail
-  New Single Metal Guardrail
-  Existing 12" Water Line
-  Existing 16" Water Line
-  Adjusted Monument

| LEGEND FOR AS-BUILT POSTINGS | |
|---|-------------------------------------|
|  | Squiggly line for as-built deletion |
|  | Double line for as-built deletion |
| Roadway | Text for as-built posting |

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL NOTES & LEGEND

KULA HIGHWAY PAVEMENT
PREVENTIVE MAINTENANCE
Thompson Road Towards Ulupalakua
Project No. 37E-01-12M

Date: December, 2011

SHEET No. 1 OF 1 SHEETS