

GENERAL NOTES

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|------------------------|-------|-----------------------|----------------|--------------|-----------------|
| HAWAII | HAW. | NH-0380(013) | 2015 | 3 | 44 |

1. The Project begins on Kuihelani Highway at Sta. 6+00 in the vicinity of Honoapiilani Highway and proceeds towards Puunene Avenue at Sta. 276+00. The scope of work for this project consists of reconstructing, cold planing and resurfacing of existing pavement of the Northbound lanes; upgrading guardrail end treatments; installing pavement markings; removal, replacement and installation of signage; cleaning existing culverts and drainage structures; application of joint stablizer; and any incidental work related to the overlay of new pavements.
2. The Contractor's attention is directed to Sub-Section 104.09 Maintenance of Traffic, 104.11 Utilities and Services, 107.06 Contractor Duty Regarding Public Convenience, Section 645 Traffic Control of the Standard Specifications and the Special Provisions.
3. Dressing of 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.
4. The Contractor shall notify the Engineer in writing, two (2) weeks prior to starting paving operations.
5. 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.
6. The Contractor shall not leave more than 1½" drop-off at the edge of pavement, at the end of each work day. Whenever the Contractor leaves a 1½" drop-off, the Contractor shall install delineators and barricades along the edge of the pavement. This work which includes furnishing, installing, cleaning, maintaining correct placement and removing when required, shall be considered incidental to various contract items.
7. The Contractor shall provide for vehicular and pedestrian access to and from all existing sideroads, driveways and walkways at all times.
8. 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. All holes, depressions and wheel ruts shall be filled and compacted with Asphalt Concrete Pavement, Mix No. IV prior to resurfacing. This work will be paid for under Asphalt Concrete Pavement, Mix No. IV.
9. Existing signs that will be removed and replaced shall be carefully disassembled and neatly organized and secured and delivered to the Maui District Baseyard. Payment for removal, storage and delivery shall be considered incidental to various pay items.
10. 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.
11. 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.
12. All lanes, with the exception of one Northbound lane currently under construction, 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).

13. 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.
14. For concrete pavement areas, a 24-hour, 7-days a week closure will be allowed. Provide at least one Northbound lane of traffic having a minimum lane width of 11 feet. Doing work in more than one lane in one direction even at different locations in the project will be considered as closing more than one lane. Only paved lanes shall be opened for public traffic (non-construction vehicles). Traffic of any kind shall not be allowed on the Cement-treated Base (CTB) once placement is completed except for equipment used for concrete placement. For intersections, all lanes shall be open to traffic during morning peak hours from 6:30 AM to 8:30 AM, during afternoon peak hours from 3:00 PM to 6:00 PM, and during non-working hours with the exception of one Northbound lane currently under construction. 24-hour 7-days a week lane closure may be allowed by the Engineer upon acceptance of a contractor's traffic control plan.
- Traffic control plans shall be submitted to the Engineer for acceptance in accordance with Specifications Section 645 - Traffic Control. Payment for the development and implementation of the traffic control plans shall be paid for under contract Item No. 645.0100 - Traffic Control.
15. 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.
16. 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.
17. All manhole frames and covers affected by the resurfacing shall be adjusted to the new grades as directed by the Engineer.
18. Cold planed connections shall be constructed at all limits of resurfacing, including the beginning and end of project, connecting approaches, side streets along A.C. curbs, around GDI's 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.
19. 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.
20. The existence and location of underground utilities, manholes, monuments, pullboxes 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. The Contractor shall contact Hawaii One Call Center for existence and location of underground utilities.

21. Contractor should use caution around existing traffic loops at signalized intersections and around utility structures. Replacement of damaged loops or utility structures shall be incidental to paving items.
22. After completion of resurfacing operations, 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.
23. All saw cutting work including the handling and disposal of slurry (cooling water and asphalt pavement sawdust) from the saw cutting shall be considered incidental and will not be paid for separately. Immediately vacuum cutting debris and water from surface as the sawing progresses. Slurry from saw cutting shall be handled and disposed of in accordance with the Water Pollution Control Notes.
24. All cold planing work shall be followed immediately with paving, temporary striping, and re-establishment of the traffic loops before reopening the lanes to traffic. The Contractor shall install temporary loop detector sensing units to replace any loops taken out of service. The cost for temporary loop detector sensing units shall be considered incidental to the various contract items.
25. 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 State of Hawaii 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.

26. Night work will be avoided during the seabird fledging period, September 15 through December 15. If night time construction is to be performed during other times of the year, all lighting will be shielded and directed toward the ground to avoid attracting adult seabirds.
27. The trimming of clearing of trees and shrubs taller than 15 feet will be avoided between June 1 and September 15 to avoid impacts to the Hawaiian hoary bat.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL NOTES

KUIHELANI HIGHWAY RESURFACING
Honoapiilani Highway to Puunene Avenue
Federal-Aid Project No. NH-0380(013)

Date: March, 2015