

GENERAL NOTES

1. The scope of work for this project includes reconstructing weakened pavement areas; cold planing; resurfacing; removing and installing loop detector sensing units; installing and/or adjusting centerline and reference survey monuments; adjusting utility boxes and manholes; removing and installing pavement markings and traffic signs; and dressing of shoulders.
2. The Contractor is reminded of the requirements of Subsection 105.16 - Subcontracts.
3. 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.
4. 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 with the exceptions of the conditions stated in Note #7 below.
5. 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.
6. The exact locations and limits or areas to be filled with leveling course, excavated, reconstructed and cold planed shall be determined in the field by the Engineer.
7. For concrete pavement areas, with the exception of intersections, a 24-hour 7-days a week closure will be allowed. Provide at least two lanes of traffic, i.e., one lane in each direction, 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. No left turns shall be allowed. Provide traffic control plan that shall direct traffic that intend to turn left to a detour route that has sufficient directions, e.g., signs, police officers, etc. to direct them to a route that takes them to their initial destination. 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. 24-hour 7-days a week lane closure may be allowed by the Engineer upon acceptance of a contractor's modification to the traffic control plan.

For asphalt pavement areas, 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. Provide at least two lanes of traffic, i.e., one lane in each direction having a minimum of 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. No left turns shall be allowed. Provide traffic control plan that shall direct traffic to a detour route that has sufficient directions, e.g., signs, police officers, etc. to direct them to a route that takes them to their initial destination.

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.

8. The Contractor shall notify the Engineer in writing, two (2) weeks prior to starting paving operations.
9. 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 Hot Mix Asphalt Pavement, Mix No. IV and will not be paid for separately.
10. Unless otherwise shown on the plans, all "No Parking" signs including supplemental signs shall not be removed and shall remain in place. Relocation of signs may be allowed if accepted by the Engineer.

11. Smooth riding connections shall be constructed at all limits of resurfacing/ reconstruction, including the beginning and end of project, connecting approaches, side streets and driveways as shown on the plans.
12. Trimming and dressing of shoulder, sidewalk and bus turnout shall consist of clearing, grubbing, grading, reshaping and compacting the unpaved shoulders with suitable materials as shown on the plans. Suitable materials shall include materials acceptable to the Engineer 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 shoulders, sidewalks, and bus turnouts, and shall be delivered to a location as directed by the Engineer. This work shall be considered incidental to the various contract items.
13. Earth swale shall be graded to drain. Graded swales shall be grassed. This work shall be considered incidental to the various contract items.
14. Existing drainage system shall be functional at all times during construction. The Contractor shall furnish materials, equipment, labor, tools and incidentals necessary to maintain flow. At the end of the project, clean all drain lines, culverts and manholes. This work shall be considered incidental to the various contract items.
15. 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.
16. All saw cutting work including the handling and disposal of the slurry (cooling water and asphalt pavement sawdust) from the saw cutting shall be considered incidental to Hot Mix Asphalt Pavement, Mix No. IV 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 Note B - Waste Disposal on Plan Sheet No. 6.
17. Install new Type II Object Marker on all utility poles and trees that are shown on the pavement marking and traffic signing plans. Refer to Standard Plan TE-17 for details.
18. Prior to 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.
19. 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.
20. 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.
21. 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 a location as directed by the Engineer. This work shall be considered incidental to the various contract items.
22. 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.

23. No material and/or equipment shall be stockpiled or otherwise stored within the highway right-of-way except at locations designated in writing and accepted by the Engineer. If use of location is accepted by the Engineer, the Contractor shall obtain a permit to use the property within the highway right-of-way from the State Highways Division District Office at Tel. No. 241-3000.
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. The Contractor will be required to locate all existing water valve boxes and manholes on the roadway pavement by scheduling an on-site field reconnaissance with the Department of Water Operations Division prior to any resurfacing work - Phone No. 245-5434. Failure to meet this requirement will subject the Contractor to all future costs involved in locating and raising any affected water valve boxes and manholes. Approximate locations of valve boxes and manholes that are to be raised to the finished grade are noted on the plans.

It shall be the responsibility of the Contractor to offset and record the locations of the valve boxes and manholes as marked by the Department of Water for purposes of adjusting the valve boxes and manholes to the new finished grades after completion of his resurfacing operations. The Contractor shall preserve all offset stakes marking the locations of the valve boxes and manholes. If offset stakes are damaged or lost, it shall be the Contractor's sole responsibility to re-stake locations of the valve boxes and manholes.

26. RESTRICTIONS:
- a. Do not work on more than one intersection at a time.
- b. Do not utilize landscape areas as detour lanes or storage lanes.
- c. Traffic may be detoured from the north bound lanes to the southbound lanes or vice-versa only from the hours of 8:30 AM to 3:00 PM, Mondays thru Fridays. However, this will not be allowed during holidays. Violation of these times will result in lane rental being charged.
27. CONSTRUCTION PHASING:
- a. PHASE 1 - Do all work on southbound lanes and median area (work on left side of base line) from Sta. 6+85 to Sta. 56+29 with the exception of the permanent pavement markings and signs. Install temporary pavement markings. Clean and restore area.
- b. PHASE 2 - Do all work on northbound lanes and median area (work on right side of base line) from Sta. 6+85 to Sta. 56+29 with the exception of the permanent pavement markings and signs. Install temporary pavement markings. Clean and restore area.
- c. PHASE 3 - Remove temporary pavement markings. Install permanent pavement markings and signs.

APPROVED:

for Bruce Inoué
Manager & Chief Engineer
Department of Water

5/9/08
Date

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION					
<u>GENERAL NOTES</u>					
<u>KAPULE HIGHWAY RESURFACING</u>					
<u>Rice Street to Ahukini Road</u>					
<u>Project No. 51B-01-08M</u>					
Date: May 2008					
SHEET No. 1 OF 1 SHEETS					