

GENERAL NOTES

1. The scope of work for this project includes removing existing asphalt concrete pavement, railroad track segments, and guardrails; constructing concrete bridge deck and approach slabs; repairing spalled concrete areas; installing new guardrails; removing and installing pavement markings and traffic signs; and cleaning existing drainage systems.
2. The Contractor is reminded of the requirements of Subsection 108.01 – Subletting of Contract, which requires him to perform work amounting to not less than 50 percent of the total contract cost less deductible items. Non-compliance with this Subsection may be grounds for rejection of bid.
3. The Contractor's attention is directed to the following Sections of the Special Provisions: Subsection 107.13 – Public Convenience and Safety; Subsection 107.21 – Contractor's Responsibility For Utility Property And Services; and Section 645 –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.
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 crack sealed, excavated, reconstructed and cold planed shall be verified in the field by the Engineer.
7. All lanes shall be open to traffic during daytime hours. Work in the travelway and shoulder shall be done at night, as specified in Section 104 of the Special Provisions. Failure of the Contractor to open all lanes of traffic during the times specified above shall result in assessment of liquidated damages as specified in Section 108.08 of the Special Provisions.
8. The Contractor shall notify the Engineer in writing, two (2) weeks prior to starting paving operations.
9. The Contractor shall provide for access to and from all existing driveways, sidewalks and side streets at all times.
10. 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 the various contract items and shall not be paid for separately.
11. The Contractor shall seal all cracks in existing asphalt concrete pavement with Hot Applied Rubberized Sealant. This work will be paid for under Item No. 401.0400, Asphalt Concrete Pavement, Mix No. IV.

12. Smooth riding connections shall be constructed at all limits of resurfacing.
13. Trimming and 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. Suitable materials shall include materials from roadway excavation, including topsoil and base material therefrom, and if necessary, additional materials from borrow outside the limits of the right of way. This work shall be considered incidental to the various contract items.
14. Existing drainage system will be functional at all times during construction. The 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.
15. The Contractor shall remove and dispose debris and silt from existing culverts, including aprons, drop inlets, outlets and spillways. This work shall be paid for under Item No. 603.1900 – Clean Existing Culvert.
16. All saw cutting work shall be considered incidental to the various contract items.
17. Prior to his resurfacing operations, the Contractor shall be responsible for locating, preserving and marking all utility and 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 an cable utilities to be adjusted to the new finished grade. This work shall be considered incidental to the various contract items.
18. 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.
19. No section where guardrails have been removed shall be left unshielded at the end of each work day. Open sections shall be shielded by portable physical barriers. Furnishing, placing and maintaining physical barriers shall be considered incidental to the various contract items. See Plan Sheet 11.
20. Removal of all guardrail terminal ends and appurtenances shall be considered incidental to the various contract items.
21. All asphalt concrete materials from cold planing and roadway excavation shall become the property of the Contractor. The Contractor shall remove and properly dispose of or stockpile these materials outside the limits of the right of way. This work shall be considered incidental to Item No. 652.100 – Cold Planing.

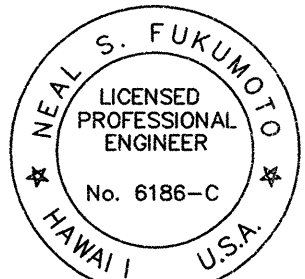
22. Contractor shall exercise extreme caution to preserve BENCHMARKS (Survey Monuments). Whenever the center of a Survey Monument is less than three (3) feet away from the edge of construction, the Contractor shall, at no cost to the State, retain a licensed land surveyor to reference the location of said Survey Monument.
23. Benchmarks that are disturbed or destroyed shall be restored at no cost to the State, under a licensed land surveyor's direction. Copies of field notes, descriptions and new values of the replaced Benchmark shall be sent to the Department of Transportation, Highways Division, Cadastral Engineering Section, for review and approval before commencement of construction.
24. The Contractor shall verify in the field the exact dimensions of the drop inlet grate to be replaced. Frame is to remain unless otherwise directed by the Engineer. Length of steel bars may change depending on existing frame dimensions. Spacing of bars shall remain as shown in the Standard Plans.
25. All steel grate items shall be hot-dip galvanized after fabrication.
26. Apply two layers of zinc coating to all welded areas after fabrication of the grate.
27. Removing and disposing of existing steel frames, grates and concrete boxes or any portions thereof, and furnishing and installing new steel frames, grates, concrete and reinforcing steel shall be considered incidental to Item No. 604.2400 – Type 61214B Steel Grate.
28. A Noise Variance has been obtained by the Department of Transportation. The Contractor shall abide by the conditions outlined in the Noise Variance.
29. Contractor shall be responsible for design, fabrication and installation of all temporary measures, including plank, decking, and incidental work necessary to complete the project. Prior to installation, Contractor shall submit design and plans for temporary measures to Highways Division for review and approval. Costs for temporary measures required to complete work shall not be paid for separately and will be considered incidental to the various contract items.

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-02-00M	2001	ADD. 3	30

LEGEND

- New Concrete Approach Slab
- Resurfacing Area
- Cold Planing Area
- New A.C. under Guardrail Areas
- Existing Traffic Sign
- New Traffic Sign
- Existing Power Pole
- Existing Guy Wire
- Adjust Grated Drop Inlet and/or Replace Existing Grate
- Existing Metal Guardrail to Remain
- New Metal Guardrail
- Existing CRM Wall
- Existing Drainage Swale
- Existing 18" Drain Line
- Existing 16" Sewer Line
- Existing 12" Water Line
- Existing Sewer Manhole
- Existing Sewer Valve Box
- Existing Water Valve Box

SURVEY PLOTTED BY	DATE
DRAWN BY	06/28/01
CHECKED BY	
NOTED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
DATE	



This work was prepared by me or under my supervision.

Wesley R. Segawa & Associates, Inc.

11-20-01	1 "General Notes" Note 29 added.
DATE	DESCRIPTION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION GENERAL NOTES AND LEGEND KUHIO HIGHWAY Wailua River Plantation Bridge Replace and Reconstruct Pavement and Structural Supports Project No. 56A-02-00M Date: May, 2001	
SHEET No. 1	OF 1 SHEETS