

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-019-1(25)	1997	3	13

GENERAL NOTES

1. This project consists of removing existing guardrails and posts; filling post holes; dressing shoulders; installing new metal guardrails, posts, and end treatments; constructing paved shoulders; and installing pavement striping and reflector markers.
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 contractors 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. The contractor shall notify the State in writing two (2) weeks prior to starting shoulder paving operations.
5. The encountering of underground utilities and other obstacles during the course of the work is possible. The contractor shall be held liable for any damages incurred to existing facilities and/or improvements as a result of his operations.
6. Longitudinal drainage along the highway shall be maintained.
7. All lanes shall be opened to traffic during morning peak hours from 6:30 am to 8:30 am, afternoon peak hours from 3:30 pm to 5:30 pm, off-work hours, and as directed by the Engineer. Only one lane of the highway shall be permitted to be closed during work hours.
8. Contractor shall provide for access to and from all existing side streets at all times.
9. 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.
10. Unprotected pavement dropoffs greater than 2" shall not be permitted during non-working hours, except when approved by the Engineer in writing.
11. The Contractor shall provide for the safe passage of bicyclists and pedestrians through the construction area.
12. Payment for reconstruction of shoulder areas, which includes placement of Plant Mix Glassphalt Concrete Base Course, shall be made under Item No. 680.1000 - Reconstruction of Shoulder Areas.

GUARDRAIL NOTES

1. The locations and limits of guardrails shown on the plans are approximate. The Contractor shall stake-out guardrail locations in the field for acceptance by the Engineer.
2. Unless otherwise noted all guardrail elements shall be 12' - 6" nominal length.
3. For all Modified Type 'G' end treatments:
 - a) Provide a curve radius to extend the flare away from the travelway.
 - b) Use the 'Rounded End Section' in lieu of the 'Flared End Section' (Refer to Standard Plan Sheet TE-51).
4. Backfill and dress shoulders using suitable excavated materials. Any additional fill quantities needed to level shoulder areas shall be paid for under Item No. 305.1210 - Aggregate Subbase. Exact limits and locations for additional fill areas shall be determined by the Engineer in the field.
5. Placement of Plant Mix Glassphalt Concrete Base Course 2' - 0" beyond the face of the guardrail applies to the entire length of guardrail, including flared segments and end treatments.
6. All existing posts and guardrails shall be removed and disposed of by the contractor at no cost to the State. This work shall be considered incidental to the contract Item No. 606.3110 - Guardrail, Type 3 - Single with Steel Post.
7. The Contractor shall provide new edge of pavement striping (equal or better than existing) and Type 'C' markers at each work site. The Contractor shall also replace striping or reflector markers damaged by his operations. Payment for this work shall be incidental to reconstruction of shoulder areas.
8. Removal and reinstallation or relocation of existing signs for the purpose of guardrail removal and installation shall be incidental to Item No. 606.3110 - Guardrail, Type 3 - Single with Steel Post. Signs damaged by the contractor's operations shall be repaired or replaced at no cost to the State.
9. All end treatments (Terminal, "C", "F", "G", etc.) not completed by day's end shall be properly delineated with Triton Barriers as directed by the Engineer. Payment for use of the Triton Barrier shall be considered incidental to guardrail installation.
10. Shoulder reconstruction shall be completed prior to installation of new guardrails.
11. Replacement of existing guardrails shall be completed within the same day. No unshielded areas shall be permitted at the end of the work day.

ORIGINAL PLAN	NOTE BOOK	No. 114891	CHECKED BY	DATE	SURVEY PLOTTED BY	4/96
					DRAWN BY	
					DESIGNED BY	
					QUANTITIES BY	

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
GENERAL NOTES	
GUARDRAIL AND SHOULDER IMPROVEMENTS, HAWAII BELT ROAD, HONOKAA TO WAIMEA F.A. PROJECT NO. STP-019-1(25)	
Scale: None	Date: Sept., 1996
SHEET No. 1 OF 1 SHEETS	