

| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|------------|-------------|-----------|--------------|
| HAWAII | HAW. | 240A-01-00 | 2001 | 5 | 9 |

GENERAL NOTES:

1. The scope of work for this project consists of: pressure grouting; installing circular culvert; constructing culvert lining; pavement reconstruction; and dressing of embankment and shoulder.
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 contractor shall provide for access to and from all existing side street at all times.
7. The contractor shall adhere to all the requirements of the applicable permits for the subject project, including the Water Quality Certification (401 Permit) and the Dept. of the Army (404 Permit). Copies of the approved permits may be acquired from the Hawaii District Office at 50 Makaala St.
8. Installing pavement striping shall not be paid for separately, but shall be considered incidental to Item 401.0400 Asphalt Concrete Pavement, Mix No IV.
9. No section of incomplete guardrail, footing, and/or excavation shall be left unshielded at the end of each work day. Open sections shall be shielded by portable physical barriers. Furnishing, placing, maintaining, relocating and removal of physical barriers shall be considered incidental to the various contract items.
10. During work hours, open sections shall be delineated by placing Type II barricades with flashers @ 40' o.c. and traffic cones @ 10' o.c. between barricades. Furnishing, placing and maintaining barricades and cones shall be considered incidental to the various contract items.
11. Providing, transporting, placing, maintaining, relocating and removal of portable concrete barriers shall be considered incidental to the various contract items. See Section 645, TRAFFIC CONTROL DEVICES of the Special Provisions.
12. Install steady burn amber lamps on portable contrete barrier @ 20' o.c. Installing, maintaining and changing batteries of the Portable Mounted Steady Burn Amber Lamps shall be considered incidental to the various contract items.
13. End of portable concrete barriers shall be protected with inertial barriers. Typical layout will vary based on speed and Manufacturer's recommendations and Roadside Design Guide.

DRAINAGE NOTES:

1. Existing drainage systems 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 shall be incidental to the various Contract Items.
2. The Contractor shall verify the locations of all existing culverts and utilities in the field. Any existing culverts and utilities damaged during construction shall be repaired or replaced by the Contractor at his own expense.
3. At least one culvert shall be operational at all times. The concrete in the culvert shall be allowed to cure a minimum of 48 hours before water is allowed to flow into the culvert.
4. The limits of pavement reconstruction shown on the plan and detail are approximate. The Engineer shall determine the actual limits in the field.
5. Culvert grout transition shall not be paid for separately, but shall be considered incidental to Item 653.1000 Concrete Lining for Culvert.

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| ORIGINAL PLAN | SURVEY PLOTTED BY | DATE |
| NOTE BOOK | DRAWN BY | 1/23/01 |
| diagram | DESIGNED BY | |
| 210g | CHECKED BY | |

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|-----------------------------------|-----------------|
| STATE OF HAWAII | |
| DEPARTMENT OF TRANSPORTATION | |
| HIGHWAYS DIVISION | |
| CONSTRUCTION NOTES | |
| <u>HONOKAA-WAIPIO ROAD</u> | |
| <u>DRAINAGE IMPROVEMENTS</u> | |
| <u>AT KAPULENA STREAM CULVERT</u> | |
| <u>Project No. 240A-01-00</u> | |
| Scale: None | Date: Jan, 2001 |
| SHEET No. 1 OF 1 SHEETS | |